TUFTS COLLEGE
LIBRARY.

WELLESLEY COLLEGE CALENDAR

1904-1905

TUFTS COLLEGE
LIBRARY

WELLESLEY COLLEGE

CALENDAR

1904-1905

PRESS OF FRANK WOOD, BOSTON

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All inquiries regarding admission (including admission to graduate courses) should be addressed to Miss ELLEN F. PENDLETON, Dean of the College.

Applications for general information should be addressed to Miss MARY CASWELL. As Secretary of the Teachers' Registry, Miss CASWELL is also prepared to furnish full and confidential information in regard to the qualifications, character, and experience of teachers educated at Wellesley. Former students of the College who wish situations as teachers have the aid of the Teachers' Registry.

Applications for pecuniary assistance (see p. 128) should be made by letter addressed to the Secretary of the Students' Aid Society, Wellesley, Mass.

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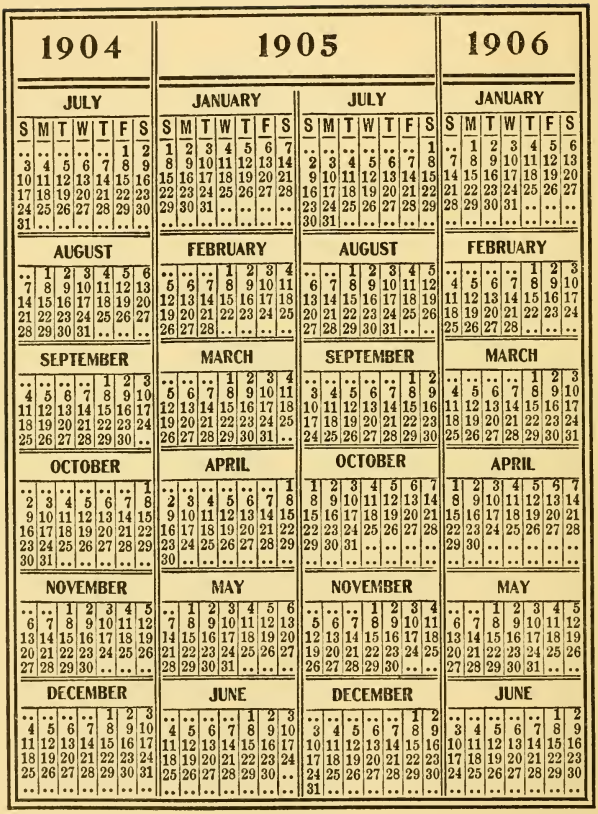

1904

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1905

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1906

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Calendar

The academic year consists of thirty-four weeks exclusive of vacations and of the week devoted to entrance examinations. Commencement Day falls on the Tuesday preceding the last Wednesday in June. The academic year begins on the fourteenth Tuesday after Commencement.

1904.

Examinations . . . . September 27–30.
College dormitories open . . 9 A. M. Friday, September 30.
Registration closes for all students at 1 P. M. Saturday, October 1.
Academic year begins . . Tuesday, October 4.
Recess from 12.30 P. M. Wednesday, November 23, until 12.30 P. M. Friday, November 25.
Recess from 12.30 P. M. Thursday, December 22, 1904, until 1 P. M. Wednesday, January 11, 1905.

1905.

Registration closes for all students at 1 P. M. Wednesday, January 11.
Second Semester begins . . Monday, February 20.
Recess from 12.30 P. M. Friday, March 31, until 1 P. M. Tuesday, April 11.
Registration closes for all students at 1 P. M. Tuesday, April 11.
COMMENCEMENT . . . Tuesday, June 27.
ALUMNÆ DAY . . . . Wednesday, June 28.

Examinations . . . . September 26–29.
College dormitories open . . 9 A. M. Friday, September 29.
Registration closes . . 1 P. M. Saturday, September 30.
Academic year begins . . Tuesday, October 3.
Recess from 12.30 P. M. Wednesday, November 29, until 12.30 P. M. Friday, December 1.
Recess from 12.30 P. M. Thursday, December 21, 1905, until 1 P. M. Wednesday, January 10, 1906.

1906.

Registration closes for all students at 1 P. M. Wednesday, January 10.
Second Semester begins . . Monday, February 19.
Recess from 12.30 P. M. Friday, March 30, until 1 P. M. Tuesday, April 10.
Registration closes for all students at 1 P. M. Tuesday, April 10.
COMMENCEMENT . . . Tuesday, June 26.
ALUMNÆ DAY . . . . Wednesday, June 27.

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† Absent on leave.
‡ Absent on leave for the first semester.
§ Withdrew for the remainder of the year, November, 1904.

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WELLESLEY COLLEGE

Wellesley, Massachusetts

Foundation and Purpose

Wellesley College was established for the purpose of furnishing to young women who desire to obtain a liberal education such advantages and facilities as are enjoyed in institutions of the highest grade. The first building of the College, erected and equipped under the supervision and through the personal means of the founder, was opened to students in 1875, with the announced purpose "of giving to young women opportunities for education equivalent to those usually provided in colleges for young men." Throughout his work the founder aimed to put into visible form his ideal of the higher education for women, "the supreme development and unfolding of every power and faculty."

By the charter, granted by the Commonwealth of Massachusetts, "the corporation of Wellesley College is authorized to grant such honorary testimonials, and confer such honors, degrees, and diplomas, as are granted or conferred by any University, College, or Seminary of learning in this Commonwealth; and the diplomas so granted shall entitle the possessors to the immunities and privileges allowed, by usage or statute, to the possessors of like diplomas from any University, College, or Seminary of learning in this Commonwealth."

In accordance with the spirit of the founder, the College is undenominational, but distinctively Christian in its influence, discipline, and instruction.

The members of the College meet daily for morning prayers in the beautiful chapel presented in 1899 by Miss Elizabeth G.

Houghton and Mr. Clement S. Houghton, as a memorial to their father. Services on Sunday are conducted in this chapel by preachers of different denominations. At all these services and at vespers on Sunday, the singing is led by a trained choir of students under the direction of the professor of music.

The Wellesley College Christian Association, organized to promote religious life, to arouse an intelligent interest in social reforms, and to foster interest in home and foreign missions, meets weekly for prayer and religious instruction in the chapel given by the founder of the College.

The department of Biblical History affords the systematic study of the Bible required of all students.

Admission

Admission to the Freshman Class

Students are admitted either by examination (see pages 25 to 27) or by certificate (see pages 27 to 29).

Every candidate for a degree must offer for admission to the freshman class the following subjects: English, History, Algebra, Plane Geometry, Latin, *and in addition the maximum requirement in a second language* (which may be either Greek, or French, or German), *together with the minimum requirement in a third language*, or in Chemistry or Physics. For full details regarding requirements in these subjects see pages 29 to 40.

The subjects prescribed for admission are divided into three groups, A, B, C, as follows :—

Group A. History, Plane Geometry, Cæsar, Cicero, Vergil and Prosody, Greek Grammar, Anabasis, Iliad, German maximum requirement (except prose composition and the use of the spoken language), French maximum requirement (except prose composition and the use of the spoken language).

Group B. Chemistry and Physics.

Group C. English (Composition and Literature), Algebra, Latin Prose Composition, Greek Prose Composition, French (prose composition and the use of the spoken language of the maximum requirement), German (prose composition and the use of the spoken language of the maximum requirement), Greek, French and German minimum requirements.

Final examinations in subjects of *Group A* may be taken *at any time* during the college preparatory course. Final examinations in subjects of *Group B* must be taken not earlier than *fifteen months before entrance* in September. Final examinations in subjects of *Group C* must be taken *not earlier than*

during the school year immediately preceding admission to college.

☞ The above applies to final examinations held by principals of schools, preliminary to granting certificates, as well as to the admission examinations.

Candidates will not be admitted if conditioned in two, or if heavily conditioned in one, of the following subjects: Latin, Greek, French, German, Mathematics, Chemistry, Physics.

A candidate for admission must be at least sixteen years of age, and must present satisfactory evidence of good moral character and good health. A blank form for the certificate of health will be sent to all registered applicants for admission.

The student who has met all entrance requirements is qualified for immediate matriculation for the Baccalaureate degree in Arts.

All communications concerning admission should be addressed to the Dean of Wellesley College, Wellesley, Mass.

Admission by Examination

June Examinations

Candidates who propose to enter by examination must take all examinations in June, except such as, by permission, may be postponed until September.

The entrance examinations conducted at Wellesley College in June are the examinations of the College Entrance Examination Board, of which Wellesley College is a member. These examinations will be held June 19–24, 1905.

In order to meet the requirements for admission to Wellesley College, candidates must pass examinations in the following subjects, as defined in the Documents issued by this Board :—

English : a, b.
History* : a, or c, or d.
Mathematics : a (i, ii), c.
Latin : a, b, c, d, l, m, n.

Maximum Second Language :
Greek : a, b, c, f, g, h ; or
French : a, b ; or
German : a, b.

Minimum Third Language or Science :
French : a ; or
German : a ; or
Chemistry ; or
Physics.

All applications for examination, and all other inquiries, must be addressed to the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

* Attention is called to the fact that the Board holds no separate examinations in Greek and Roman History. Applicants proposing to offer either Greek or Roman History alone should apply to the College for permission to postpone this examination until September.

A list of places at which the examinations are to be held in June, 1905, will be published about March 1st. In order that they may receive proper consideration, requests that the examinations be held at particular points should be transmitted to the Secretary of the Board *not later than February 1st.*

The applications of candidates for admission to examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Secretary on or before Monday, June 5, 1905; applications for admission to examination elsewhere in the United States or in Canada must be received on or before Monday, May 29, 1905; and applications for examination at points outside the United States and Canada must be received on or before Monday, May 15, 1905.

Applications received later than the dates named will be accepted when it is possible to arrange for the examination of the candidates concerned, but only upon payment of five dollars in addition to the usual examination fee. Candidates filing belated applications do so at their own risk.

The examination fee is five dollars for all candidates examined at points in the United States and Canada, and fifteen dollars for all candidates examined at points outside of the United States and Canada.

September Examinations

Admission examinations are offered by the College in September as heretofore. In general these examinations are open to those candidates only who propose to enter the current September.

Schedule of Examinations, September, 1905

TUESDAY, SEPTEMBER 26.

8.30–10.00 A. M.	Greek Grammar.
10.15–11.45	Greek Prose Composition.
8.30–11.15	German (maximum).
2.00– 3.00 P. M.	Anabasis.
3.00– 4.30	Iliad.
2.00– 4.45	French (maximum).

(*Continued on next page.*)

Schedule of Examinations (Continued)

WEDNESDAY, SEPTEMBER 27.

8.30–10.30 A. M.	Algebra.
10.45–12.30	Plane Geometry.
1.30– 3.15 P. M.	Chemistry, Physics.
3.30– 5.30	History (American, English, Grecian, Roman).

THURSDAY, SEPTEMBER 28.

8.30–10.00 A. M.	Cicero.
10.15–11.45	Latin Prose Composition.
2.00– 3.00 P. M.	Cæsar.
3.00– 4.30	Vergil.

FRIDAY, SEPTEMBER 29.

8.30–12.30 A. M.	English Composition and Literature.
2.00– 4.30 P. M.	French (minimum).
"	German (minimum).
"	Greek (minimum).

Admission by Certificate

Any school whose equipment and curriculum enable it to prepare students for the freshman class, upon complying with the regulations stated below, may receive the right to give a certificate of scholarship which shall exempt the candidate from college examinations for admission in the subjects satisfactorily covered by the certificate.

Right of Certification

1. If a school has not the right of certification and the principal wishes to obtain this privilege, he should apply to the Dean of the College between October first and March first of any year. In response to this application a blank form will be sent, which the principal is requested to fill out and return, sending with it a catalogue or circular of the school. *Specimen laboratory notebooks* must be submitted before science courses will be approved.

During the interval between March first and October first applications for the right of certification will not be considered by the Board of Examiners.

2. The school is considered to be on probation during the first year of the first candidate. The right of certification may be withdrawn at any time from any school which fails to give complete and satisfactory preparation.

Wellesley College is a member of the New England College Entrance Certificate Board, and in accordance with the By-Laws and Rules of that Board all certificate privileges previously granted by the College expired by limitation January 1, 1904.

Any school in New England desiring a renewal of these certificate privileges must in accordance with the By-Laws and Rules of the Board apply to the Secretary, Prof. Nathaniel F. Davis, 159 Brown Street, Providence, R. I., before April first of the year in which it is proposed to make use of the privilege.

Schools outside of New England desiring a renewal of these certificate privileges must apply to the *Dean of the College* as heretofore. Such application must be made before *March first* of any year in order to secure the admission of candidates in the following September.

Certificate of Scholarship

1. After a school has received the right of certification, the principal must present, upon a blank form furnished by the College, a certificate of scholarship for each candidate.

2. All certificates and laboratory notebooks must be forwarded in time to be received at the College *by July first.* On or before August first each candidate will be informed of the decision with regard to her certificate. Certificates received *after July first* may be refused, and in any case the decision will be necessarily delayed to the great disadvantage of the candidate.

3. All certificates must show distinctly that the candidate has met in detail the requirements as published in the current Calendar. Whenever any variation has been allowed, the work done must be specifically stated and offered as an equivalent, to be accepted or refused. *Attention is called to the division of the admission subjects into Groups A, B, C, stated on pages 23 and 24, and to the fact that final examina-*

tions in the subjects of Groups B and C must be taken within a specified time of admission.

4. All certificates must be signed by the principal of the school, and countersigned by the assistants who have instructed the candidate.

5. Partial certificates from two accredited schools will not be accepted for the admission of a candidate, unless permission has been obtained from the Board of Examiners.

6. All work completed after July 1st must be tested by examination at the College in September. Certificates for such work will not be accepted.

7. The candidate who has received the certificate of a principal will not be exempt from the examinations for admission in any particular subject, unless her certificate shows that she has satisfactorily accomplished the full amount of work required in that subject. Any student whose certificate is found on July first to be seriously deficient, may be refused the privilege of taking examination the following September.

Requirements for Admission

1. English

Composition.—The subjects for the examination in Composition will be taken from the English Literature required for the year. The form of the examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a number set before her in the examination paper in English Literature. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books.

To meet the requirement in Composition :—

A. There should be practice in writing equivalent to fortnightly themes the first two years, and weekly themes the last two years of the preparatory course. The subjects for themes should not be

drawn chiefly from books. The student should be led, especially for short themes, to choose her own subjects, based on daily experience and observation. No applicant will be accepted in English whose work is notably defective in point of spelling, punctuation, grammar, idiom, or paragraph structure.

B. There should be systematic study of Rhetoric made subservient to the work in Composition. Particular attention should be given to principles of structural organization in the sentence, paragraph, and whole composition; to unity, emphasis, and coherence; to good use in words; and to the analysis and topical outlining of essays. The following books are recommended:—

Scott and Denney's *Composition-Rhetoric;* A. S. Hill's *Foundations of Rhetoric*, and as companion book, Huber Gray Buhler's *Practical Exercises in English;* Herrick and Damon's *Composition and Rhetoric;* Newcomer's *Rhetoric;* Carpenter's *Exercises in Rhetoric and Composition* (High School Course).

Literature.—The Wellesley requirement is that adopted by the Commission of New England Colleges.

A. Reading.

Certain books are set for reading. The candidate is required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors.

The books set for this part of the examination are:—

In 1905: Shakespeare's *The Merchant of Venice* and *Julius Cæsar;* the *Sir Roger de Coverley Papers;* Goldsmith's *The Vicar of Wakefield;* Coleridge's *The Ancient Mariner;* Scott's *Ivanhoe;* Carlyle's *Essay on Burns;* Tennyson's *The Princess;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

In 1906, 1907, and 1908: Shakespeare's *Macbeth* and *The Merchant of Venice;* the *Sir Roger de Coverley Papers;* Irving's *Life of Goldsmith;* Coleridge's *The*

Ancient Mariner; Scott's *Ivanhoe* and *The Lady of the Lake;* Tennyson's *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Lowell's *The Vision of Sir Launfal;* George Eliot's *Silas Marner.*

B. Study and Practice.

This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination are :—

In 1905 : Shakespeare's *Macbeth;* Milton's *Lycidas, Comus, L'Allegro,* and *Il Penseroso;* Burke's *Speech on Conciliation with America;* Macaulay's *Essays on Milton and Addison.*

In 1906, 1907, and 1908; Shakespeare's *Julius Cæsar;* Milton's *L'Allegro, Il Penseroso, Comus,* and *Lycidas;* Burke's *Speech on Conciliation with America;* Macaulay's *Essay on Addison* and *Life of Johnson.*

NOTE.—In the Wellesley examination it is taken for granted that candidates will have learned by heart illustrative passages from all poems read. Books set in the requirements of previous years are satisfactory substitutes.

2. History

A full year course with at least three recitations per week in *one* of the following subjects :—

(1) The History of Greece to the death of Alexander, with due reference to Greek life, literature, and art.

(2) The History of Rome, the Republic and Empire to the accession of Commodus.

(Continued on next page.)

(3) English History, with due regard to social and political development.

(4) American History, with the elements of Civil Government.

(5) Or as an alternative to any one of the courses described above, *one course in both Greek and Roman History may be offered*, provided the time given to this course is not less than one hundred and fifty recitations.

In the subject chosen, the student should acquire accurate knowledge of the history as presented in a standard text-book of not less than 300 pages, and should read such fuller authorities as may be available, in amount not less than 500 pages. Some practice in drawing maps to illustrate territorial changes, in making digests of lectures and reading, and in preparing verbal or written reports on subjects assigned for individual investigation is essential to successful work.

Students presenting themselves for examination are expected to bring notebooks, maps, and essays, that may serve as supplementary evidence of the character of their preparation.

3. Mathematics

Algebra.—Factors, Common Divisors and Multiples, Ratio and Proportion, Theory of Exponents, Radicals and Equations involving Radicals, Inequalities, Quadratic Equations (including the theory), Imaginary Quantities, Binomial Theorem, Arithmetic and Geometric Progressions.

Plane Geometry.—As found in Chauvenet, or its equivalent.

Deficiency in preparation usually results from one or more of the following causes: the use of text-books which are too elementary, insufficient time spent in preparation, neglect of exercises in original demonstration in Geometry, and of reviews in both Algebra and Geometry. One and one-third years, with daily recitations, is the shortest time in which satisfactory preparation can be made in Algebra, and one year with daily recitations is the minimum in Geometry. It is strongly urged that there be constant exercise in original demonstration in Geometry, with frequent written examinations in both Algebra and Geometry, the problems proposed being drawn from other sources than the text-books.

4. Latin

Grammar, including Prosody.

Prose Composition.

The study of this subject should be continued through the course, and should include: (1) A *systematic study* of the main principles of Latin syntax. (In order to secure the thorough drill required, a standard text-book which gives such systematic study should be completed.) (2) The writing of at least forty connected passages based upon the Latin of Cæsar and Cicero.

Cæsar, *Gallic War*, four books.

Cicero, seven orations, or six if the *Manilian Law* be one.

Vergil, *Æneid*, six books.

Candidates must be prepared to translate at sight Latin of average difficulty, and to write in Latin connected passages based upon Cæsar and Cicero.

Equivalents are accepted, but verse is not accepted in place of prose, nor anything instead of the required translation of English into Latin.

The teachers of Latin in the preparatory schools are urged to insist upon the use of good English in translation.

Ability to read at sight easy French or German prose is of great advantage to all classical students.

The study of Greek is strongly recommended to candidates who plan to elect courses in Latin in college.

5. Greek

Maximum Requirement

Grammar. *The etymology must be thoroughly mastered.*

Prose Composition. At least forty written exercises based upon the Greek of Xenophon, including connected passages and accompanied by a systematic study of the main principles of syntax.

Xenophon, *Anabasis*, three books.

Homer, *Iliad*, three books; with scansion.

Candidates must be prepared to translate at sight both Attic and Homeric Greek of average difficulty, and to write in Greek a connected passage based upon Xenophon.

Particular attention should be given to the correct writing of Greek with the accents, to exercises both oral and written, and to the use of the blackboard for constant practice upon forms and constructions.

The preparation for the maximum requirement must cover a period of three years, with four or five recitations per week. If the preparation is made in less time, an examination in Prose Composition may be required.

The teachers of Greek in the preparatory schools are urged to insist upon the use of good English in translation.

Ability to read at sight easy French or German prose is of great advantage to all classical students.

Minimum Requirement

Systematic study of etymology from a standard grammar in connection with a book of First Lessons. *Anabasis*, about thirty pages. Practice in writing Greek.

This work requires at least one year, with five recitations per week. This preparation admits the student to course 14 in College, and these two courses complete the preparation for course 1 (see page 41).

6. French

Maximum Requirement

To meet the requirement in French the candidate must be prepared in the following:—

(1) Grammar: a knowledge of the etymology and the essential principles of syntax, especially the use of moods and tenses.

(2) Composition: familiarity with the commoner idioms, and ability to translate connected passages of easy English into French at sight.

(3) Reading: in addition to the reading for the minimum requirement, not less than five hundred duodecimo pages of contemporary prose and verse, a portion in dramatic form, from at least four standard authors.

(4) Exercises in Speaking: ability to follow a recitation conducted in French, to answer questions in that language, and to repeat some short selections from French prose and poetry.

These results can be best attained by the use of the books indicated for college courses 1 and 2, or their equivalents (see pages 54 and 55 of present Calendar.)

The preparation for the maximum requirement must cover a period of three years, with four or five recitations per week. If the preparation is made in less time, an examination will be required.

Minimum Requirement

The preparation for this requirement should comprise :—

(1) Careful drill in pronunciation.

(2) The rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the simpler uses of the conditional and subjunctive, and the elementary rules in syntax; the order of words in the sentence, and application in the construction of sentences.

(3) Abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression.

(4) Writing French from dictation.

(5) The reading of 300 duodecimo pages of graduated texts from at least three different authors, with constant practice in

translating into French easy variations upon the texts read (the teacher giving the English), and in reproducing from memory sentences previously read.

(6) Frequent abstracts, sometimes oral and sometimes written, of portions of the text already read.

If the time given to the preparation is less than one year with five recitations per week, an examination will be required.

7. German

Maximum Requirement

To meet the maximum requirement in German the candidate must have :—

(1) A distinct German pronunciation, which may be acquired at the outset by a course in phonetics.

(2) A knowledge of the important rules of elementary grammar, which the student should be able to state in German, and to illustrate by original examples.

(3) Ability to understand spoken German, *e.g.*, a lecture or story given in simple German, which will be acquired if German is made the language of the class room.

(4) Ability to express herself in German upon simple topics. A knowledge of German idioms is gained by object lessons according to Pestalozzi's Anschauungs method, and by constant exercises in speaking.

(5) Ability to understand and recite some short specimens of choice lyric poetry.

(6) Ability to translate easy German at sight.

(7) Ability to translate easy English into German, to write exercises in free composition, and to use the German script.

These results can be obtained by the following course or its equivalents :—

Grammar: Deutsche Sprachlehre, by Wenckebach (Holt), or *Lehrbuch der Deutschen Sprache*, by Spanhoofd (Heath) and *Jagemann's Syntax* (Holt) used for reference.

Prose Composition: Wenckebach's Prose (Holt), pp. 1–109 and pp. 165–210, or *Poll's Prose* (Holt) and frequent exercises in *freie Reproduktion* in connection with the reading.

Reading and Speaking: Glück Auf (Ginn); some easy story for practice in sight reading, *e. g.*, *Immensee*, *Aus Meiner Welt*, etc.; a drama, *e. g.*, Schiller's *Wilhelm Tell*, selections from Goethe's *Dichtung und Wahrheit* (Holt) and *Hermann und Dorothea*, *i. e.*, about 700 pages.

Poetry: Die Schönsten Deutschen Lieder, compiled by Wenckebach; the first five "Volkslieder," and numbers 2, 3, 8, 10, 14, 15, 18, 19, 20, 21, 22, 23, 26, 28, 30, 32, 34, 37, 40, 42, 45, 46, 47, 50, 51, 52, 59, 60, 61, 62, 63, committed to memory.

☞The desired results are *not* obtained if the main emphasis in the work is laid on translation from German into English instead of emphasizing prose composition, *freie Reproduktion*, and the use of the spoken language in the class room.

The preparation for the maximum requirement must cover a period of three years, with four or five recitations per week. If the preparation is made in less time an examination will be required.

Minimum Requirement

The preparation for this requirement should comprise :—

(1) Careful drill upon pronunciation and use of German script.

(2) The memorizing and frequent repetition of easy colloquial sentences.

(3) Drill upon the rudiments of grammar; that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, of the modal auxiliary, and of the elementary rules of syntax and word order. This drill upon the rudiments of grammar should be directed to the ends of enabling the pupil (1) to use his knowledge with facility in the formation

of sentences, and (2) to state his knowledge correctly in the technical language of grammar.

(4) Abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression. These exercises should include practice in the translation into German of easy variations upon the matter read, and also in the offhand reproduction, sometimes orally and sometimes in writing, of statements of short and easy selected passages.

(5) The reading of about two hundred pages of graduated texts.

These requirements may be met by the following course or its equivalent:—

Grammar: Spanhoofd's *Lehrbuch* (Heath), entire.

Prose Composition: Wesselhoeft's (Heath) entire, or Wenckebach's (Holt), pp. 1–109.

Reading and Speaking: Glück Auf (Ginn), *Aus Meiner Welt* (Holt), *Immensee* (Heath).

Poetry: The poems in *Glück Auf* to be committed to memory.

If the time given to the preparation is less than one year, with five recitations per week, an examination will be required.

8. Chemistry

The requirement is met by the course outlined in the Report of the College Entrance Examination Board, *Document No. 12 or 20.*

The preparation in Chemistry should cover at least one year, five recitations per week. Experiments should be done by the student in the laboratory to illustrate the properties of the most important elements, both metallic and non-metallic, and their compounds, and it is strongly recommended that a few of these experiments should be of a quantitative nature.

In addition to an examination or certificate of examination, the student will be required to present notebooks of laboratory

work. These notebooks must bear the endorsement of the teacher, certifying that the notes are a true record of the student's work, and must be presented with the certificate on or before July 1st, or at the time of the examination. In case the notebook is lacking or inadequate, a laboratory test will be given.

9. Physics

The requirement is met by the course outlined in the Report of the College Entrance Examination Board, *Document No. 12 or 20*. Preparation in Physics should cover at least one year, with five recitations per week. In addition to an examination, or a certificate of examination, the student will be required to present notebooks of laboratory work. These notebooks must be *indexed* and bear the endorsement of the teacher, certifying that the notes are a true record of the student's work, and they must be presented with the certificate on or before July 1st or at the time of the examination.

Admission to Advanced Standing

Candidates for advanced standing must fulfill the requirements for admission to the freshman class, and must also be prepared to be examined in the required studies previously pursued by the class which they wish to join, and in a sufficient number of electives to give full standing with that class.

Such candidates, if they come from other colleges, may present certificates of college work, but should clearly understand that these do not necessarily exempt them from examinations.

Each candidate should apply for a statement of the credentials which she will need to present.

Candidates for advanced standing whose applications are filed *before April 1st* of the year in which they propose to enter, and whose credentials admit them *to junior or higher rank*, will take precedence of candidates for the freshmen class in the assignment of rooms.

All correspondence should be addressed to the Dean of the College.

Admission of Students not Candidates for a Degree

Opportunities for special study are offered to students who are not candidates for a degree, but are qualified to undertake college work.

Applicants who give satisfactory evidence of ability to pursue advanced courses of study may be admitted at the discretion of the Board of Examiners, provided that they satisfy the requirements of the departments which they propose to enter. It will be noted that opportunities of prosecuting work along special lines are thus open to persons of experience and success in teaching who possess the requisite qualifications for admission to college classes.

Applicants of less maturity and acquirement are not ordinarily admitted, but if such desire admission they must expect to meet, by examination or by certificate from an accredited school, the requirements prescribed for admission to the freshman class, or a full equivalent for them, and to satisfy such additional requirements as are prescribed by the departments which they propose to enter.

All courses, graduate as well as undergraduate, are open to special students, subject to the conditions stated by the various departments; but every such student is expected to choose a primary subject to which she should devote the greater part of her time. A student who creditably completes a prescribed group of courses in two or more departments will be granted a certificate.

As the capacity of dormitories is not sufficient for candidates for degrees, special students cannot be lodged in the college buildings. Comfortable homes may be found in the village at about the same expense as in college dormitories.

Application for admission as a special student, with all required certificates, should be sent to the College before the first of July. All correspondence should be addressed to the Dean of the College.

Courses of Instruction

The following Courses of Instruction are offered by the several departments. The College reserves the right to withdraw the offer of any course not chosen by at least six students.

I. Greek

1. Lysias (selected orations); Plato: *Apology and Crito;* English into Greek, exercises based on prose read; Homer: *Odyssey* (selections amounting to about 2,500 verses).

   Open to students who have met the maximum admission requirement. Four hours a week for a year.

   A separate division reciting three times per week may be formed for students above freshman rank.

   Associate Professor Montague,
   Associate Professor Edwards.

2. Attic Orators: selections; Euripides: one drama.

   Open to students who have completed course 1. Three hours a week for a year.

   Associate Professor Montague.

3. Historians: Thucydides: *The Sicilian Expedition;* Herodotus: *The Persian War;* Æschylus: *Persians.*

   Open to students who have completed course 1. Three hours a week for a year.

   Associate Professor Edwards.

4. Origin and Development of Greek Drama. Aristotle's Theory of Tragedy. Reading and criticism of selected dramas; Æschylus: *Prometheus;* Sophocles: *Œdipus Tyrannus, Antigone;* Euripides: *Bacchæ;* Aristophanes: *Frogs* (selections). A study of all

the extant plays of Æschylus and Sophocles is made by special topics.

Open to students who have completed two full courses. Three hours a week for a year.

Professor Chapin.

5. History of Greek Poetry. Theory of Poetry in Plato's *Ion*. Lectures and readings; Homeric Hymns; Hesiod; elegiac poets: lyric fragments; Pindar; Bacchylides; Theocritus.

Open to students who have completed three full courses. Three hours a week for a year.

Professor Chapin.

7. Greek Dialects.

Open to students who have completed three full courses. Three hours a week for a year.

Associate Professor Edwards.

A comparative study of the Greek dialects, their characteristics and their relations to each other, with reading and study of inscriptions and selected texts.

*10. Plato: *Phædo* and selections from other dialogues. Collateral readings from other Greek writers.

Open to students who have completed two full courses. Three hours a week for a year.

Associate Professor Montague.

11. Greek Syntax. A systematic study of the essential principles of Greek Syntax, illustrated by passages from various authors. Constant practice in translation from English into Greek.

This course is especially recommended to those intending to teach Greek. Open to students who have completed course 1. Two hours a week for a year.

Associate Professor Montague.

* Not offered in 1904–1905.

*12. Homeric Seminary.

Open to students who have completed three full courses. Three hours a week for a year.

Associate Professor Edwards.

Critical study of selected portions of the *Iliad* with discussions and lectures on special problems of Homeric grammar and antiquities, supplemented by the private reading of the greater part of the *Iliad*.

13. Elementary Course. Greek Grammar. Xenophon: *Anabasis*, Book II. Practice in writing Greek.

Open to all students. Four hours a week for a year.

Associate Professor Montague.

14. Xenophon's *Anabasis*, continued. Homer: *Iliad*, 3 books. Sight translation. Prose composition throughout the year based on prose read.

Open to students who present the minimum admission requirement in Greek, or who have completed course 13. Freshmen four hours, other students three hours a week for a year.

Miss Tufts.

For additional courses see Comparative Philology and Classical Archæology.

For courses in the study of the Greek Testament see pp. 68 and 69.

II. Latin

1. Cicero: *De Senectute* and *Letters*. Latin writing, exercises based mainly on Cicero. Tacitus: *Germania* and *Agricola*. Outline studies in the Early Empire. Selections from Horace.

Open to students who have met admission requirement. Four hours a week for a year.

Associate Professor Walton, Miss Fletcher.

* Not offered in 1904–1905.

2. Horace: *Odes.*

Open to students who have completed course 1. Three hours a week for the first semester.

Associate Professor Walton, Miss Cogswell.

3. *Epistles* of Horace. Pliny's *Letters.*

Open to students who have completed course 1. Three hours a week for the second semester.

Associate Professor Walton, Miss Cogswell.

13. Livy: Books I., II., III. Study of early political institutions of Rome. Sight reading from Books XXI.–XXII. Ovid: *Fasti.* Study of religious institutions.

Open to students who have completed course 1. Three hours a week for a year.

Miss Fletcher.

(As courses 2 and 3, and 13 are both planned for sophomore work, neither year may be taken, as the third course, by students who make Latin a major.)

11. Latin Prose Composition. Intermediate Course.

Open to students who have completed course 1 and are taking some other course in the department One hour a week for a year.

Miss Fletcher, Miss Cogswell.

10. Latin Prose Composition.

Open at the discretion of the instructor to students who have completed Latin 11. Two hours a week for a year.

Miss Fletcher.

4. Comedy. Selected plays of Plautus and Terence.

Open to students who have completed two full courses. Three hours a week for the first semester.

Professor Hawes.

5. Satire. Selections chiefly from Horace and Juvenal.

Open to students who have completed two full courses. Three hours a week for the second semester.

Professor Hawes.

12. History of Latin Literature. Lectures and readings, with direction of the students' private reading.

Open to students who have completed two full courses, and who are taking some other course in the department. One hour a week for a year.

Professor Hawes.

The aim of this course is to give a general survey of the subject, tracing the beginnings and development of the various kinds of prose and verse, and considering the changes in the political and social conditions under which Latin literature developed.

‡15. Topography of Rome. Epigraphy. Lectures and discussions.

Open to students who have completed two full courses. Three hours a week for a year.

Associate Professor Walton.

First semester: Architectural History and Topography of Ancient Rome; Studies in Pompeii. Second semester: Latin Epigraphy. Egbert's *Latin Inscriptions* is used as a text-book.

16. Private life of the Romans. Lectures, readings, and discussions.

Open to students who have completed two full courses, and who are taking some other course in the department. One hour a week for a year.

Professor Hawes.

‡ Latin 15 and Archæology 3 and 4 are not usually given in the same year.

*§14. Prose writers of the Early Empire. Readings from Tacitus, Suetonius, Seneca, Quintilian, and other authors.

Open to students who have completed two full courses. Three hours a week for a year.

Professor Hawes.

§9. Latin Poetry, especially Lyric, Idyllic, and Elegiac. Readings from Catullus, Horace, Vergil, Tibullus, Propertius, Ovid, Martial, and some of the later poets.

Open to students who have completed three full courses. Three hours a week for a year.

Professor Hawes.

Classical Archæology

6. Introduction to Classical Archæology.

Open to juniors and seniors who have completed one full course in Latin or Greek. Two hours a week for a year.

Associate Professor Walton.

Outline history of prehistoric remains in Greece and Italy, with special emphasis upon Mycenæan civilization; introductory study of Greek vases, Greek and Roman coins, painting, bronzes, and gems.

*‡3. Topography of Greek sites with special reference to Athens.

Open to students who have completed three full courses in Greek. Three hours a week for the first semester.

Associate Professor Walton.

The work will be based upon the text of Pausanias, in which there will be practice in rapid reading, besides close study of architectural history based on certain portions.

* Not offered in 1904–1905.

§ Latin 9 and 14 are not given in the same year.

‡ Archæology 3 and 4 and Latin 15 are not usually given in the same year.

*‡4. History of Greek Ceramics.

Open to seniors who have completed course 6 or 3. Three hours a week for the second semester.

Associate Professor Walton.

So far as possible, the work will be illustrated by the vase collection in the Boston Museum of Fine Arts.

5. Greek Mythology illustrated in Art.

Open to students who have completed two full courses in Greek, and to others upon consultation. One hour a week for a year.

Associate Professor Walton.

First semester: Olympic deities; Greek stories of Cosmogony; minor mythological figures. Second semester: Stories of the heroic age; legends of Troy, Thebes, and of the Atreidæ, including Iphigenia and Orestes.

The legends will be traced from their literary sources, and amply illustrated from reliefs, statuary, coins, and vase paintings.

III. German

§1. Elementary Course. Grammar, prose composition, reading, exercises in speaking, memorizing of poetry.

Open to all students. Freshmen four hours, all other students three hours a week for a year.

Miss Reuther, Dr. Wipplinger.

§2. Elementary Course. Topics as in course 1.

Open to all students who have completed course 1 or an equivalent. Freshmen four hours, all other students three hours a week for a year.

Miss Reuther, Miss Pirscher, Dr. Wipplinger.

* Not offered in 1904–1905.

‡ Archæology 3 and 4 and Latin 15 are not usually given in the same year.

§ First-year German may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year German if taken after the junior year.

‡4. Intermediate Course.

Open to all students who have completed the minimum B admission requirement in German. Freshmen four hours, all other students three hours a week for a year.

Miss Stüven.

This course is intended to fit students to enter courses 5 and 10. It is especially arranged for students who have no conversational knowledge of German.

‡25. *Double German.* A combination of courses 1 and 2.

Open to all students except freshmen. Six hours a week for a year.

Miss Schaefer.

Spanhoofd's *Lehrbuch der Deutschen Sprache*, Müller and Wenckebach's *Glück Auf*, Jagemann's *Syntax and Prose Composition*, Wenckebach's *Die Schönsten Deutschen Lieder*, are used in the above courses. Selected texts like Meissner's *Aus Meiner Welt*, Heyse's *L'Arrabbiata*, Scheffel's *Trompeter*, Keller's *Legenden*, and Heine's *Die Harzreise*, are read and translated. The aim of courses 1, 2, 4, and 25 is to give the student a thorough knowledge of elementary German grammar, ability to understand with ease spoken German, to converse upon simple topics, and to translate easy German into English, and vice versa. Special attention is paid to the reproduction in German, orally and in writing, of the topics read and discussed in the class, to the memorizing of choice lyric poetry, to the acquirement of a correct German pronunciation, and to the writing of the German script.

†3. Scientific German.

Open to sophomores beginning German. Three hours a week for a year.

The object of this course is to give the student, through the medium of translation, such a knowledge of German as shall be useful in the study of the natural sciences.

† Withdrawn for the current year.

‡ First-year German may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year German if taken after the junior year.

5. Grammar and Composition (Intermediate Course).

Open to all students who have completed courses 2, 4, or 25, or who have met the maximum admission requirement in German. One hour a week for a year.

Miss Stoeber, Miss Stüven, Miss Pirscher,
Miss Schaefer, Dr. Wipplinger.

Review of elementary grammar and study of more advanced grammar. Constant practice in prose composition, freie Reproduktion, and letter writing.

*6. Translation, Reading, and Poetry.

Open to all students who have completed courses 2, 4, or 25, or who have met the maximum admission requirement in German. Two hours a week for a year.

Classical texts like Schiller's *Maria Stuart* (Müller and Wenckebach's edition) and Goethe's *Dichtung und Wahrheit* (v. Jagemann's edition) are made the basis of easy lectures and discussions in German, so that the student may become accustomed to follow an uninterrupted train of thought and learn to think connectedly in a foreign language. Some choice specimens of poetry are memorized.

10. Outline History of German Literature.

Open to all students who have completed courses 2, 4, or 25, or who have met the maximum admission requirement in German. Freshmen three hours, all other students two hours a week for a year.

Miss Stoeber, Miss Pirscher, Miss Stüven,
Miss Schaefer, Dr. Wipplinger.

The main object of this course is to familiarize the student with the vocabulary necessary for literary reading and discussion, and to furnish her with a general mythological and historical background for the more detailed study in the courses following this.

* Not offered in 1904–1905.

8. Grammar and Composition (Advanced Course).

Open to students who have completed courses 5 and 10. One hour a week for a year.

Miss Stoeber, Miss Stüven, Dr. Wipplinger.

The work in this course will to a large extent consist in the rendering of selections from English authors into the German idiom.

11. Goethe's Life and Works (Introductory Course).

Open to students who have completed courses 5 and 10. Two hours a week for the second semester.

Professor Müller, Miss Stoeber.

Lectures, discussions, short papers. Study of the principal characteristics of Goethe's life and works to the time of his literary co-operation with Schiller. Works read and discussed: *Dichtung und Wahrheit* (selections), *Götz von Berlichingen*, *Iphigenie*, *Hermann und Dorothea*, poems, etc.

22. Schiller's Life and Works (Introductory Course).

Open to students who have completed courses 5 and 10. Two hours a week for the first semester.

Miss Reuther.

Lectures, discussions, short papers. Texts read: Hamann's *Leben Schillers*, *Die Räuber*, *Kabale und Liebe*, *Wallenstein*, *Maria Stuart*, select poems.

14. Theory of the Drama, illustrated by classic and modern dramas.

Open to students who have completed courses 8, 11, 15, and to others by permission of the department. Two hours a week for the second semester.

Miss Stüven.

Lectures, discussions, reading. Treatment of the historical development of dramatic poetry. Study of the structure of the drama according to Freytag's *Technik des*

Dramas. Analysis of Shakespeare's *Macbeth*, of Schiller's *Die Räuber*, *Kabale und Liebe*, *Maria Stuart*, and Goethe's *Iphigenie*. Reference book: Volkelt's *Die Aesthetik des Tragischen.*

23. Advanced Conversation.

Open to students who have completed course 8. One hour a week for a year.

Miss Stoeber, Dr. Wipplinger.

The object of this course is to give greater fluency in speaking. Subjects for conversation are taken from German journals, especially from the *Woche.*

15. History of German Literature I.

Open to students who have completed courses 5 and 10. Two hours a week for the first semester.

Miss Stoeber, Miss Stüven, Dr. Wipplinger.

The course consists of lectures, discussions, reading. The aim of the lectures is to trace the parallel development of the language, literature, social conditions, and religious ideals of the times. The works read and discussed are: the *Merseburger*, *Zaubersprüche*, the *Hildebrandslied*, the *Wessobrunner Gebet*, *Muspilli*, Selections from the *Heliand*, Otfried's *Krist*, Roswitha's dramas, the *Walthariliied*, etc., according to Wenckebach's *Deutsche Literaturgeschichte* and *Musterstücke*, Scherer's *Geschichte der deutschen Literatur*, Freytag's *Bilder aus der deutschen Vergangenheit*, Könnecke's *Bilderatlas.*

16. History of German Literature II.

Open to students who have completed course 15, and to others by permission of the department. One hour a week for a year.

Miss Stoeber.

The course consists of lectures, discussions, reading, memorizing of poetry. The method, aim, and reference books are the same as in the preceding course. Chief topics: the Nibelungenlied, the Gudrunlied, the works of

Wolfram, Gottfried, Hartmann, the Minnesingers and Meistersingers, Luther, Brant, Hans Sachs, and the Volkslied. The reading will consist of representative specimens of German mediæval prose and poetry as found in Wenckebach's *Meisterwerke des Mittelalters.*

9. History of the German Language.

Open to students who have completed course 8. One hour a week for a year.

Miss Pirscher.

This course aims to give a fuller and more thorough understanding of the modern idiom through the study of its historical development. Text-book: Behaghel's *Die Deutsche Sprache.*

17. Middle-High German.

Open to students who have completed at least courses 5 and 10. Two hours a week for the second semester.

Miss Pirscher.

Survey of Middle-High German forms and sounds. Translation of Middle-High German epic and lyric poetry into the modern idiom.

13. The German Novel.

Open to students who have completed courses 8, 11, 15, and to others by permission of the department. One hour a week for a year.

Professor Müller.

Lectures, reading, discussion, essays. Presentation of the historical development of the German novel, in lectures. Special study of some of the representative novels by Goethe, Jean Paul, Freytag, Keller, Heyse, Storm, Sudermann, etc.

18. The German Romantic School.

Open to all students who have completed courses 8, 11, 15, and to others by permission of the department. Two hours a week for the second semester.

Dr. Wipplinger.

Reading of works representative of the Romantic School. Reference books: the histories of German literature, by R. Haym, W. Scherer, G. Brandes, R. Meyer, and others.

19. Lessing as Dramatist and Critic.

Open to students who have completed courses 8, 11, 15, and to others by permission of the department. Two hours a week for the first semester.

Professor Müller.

Treatment of Lessing's critical work in literature, theology, and æsthetics. Works read and discussed are: *Minna von Barnhelm*, *Emilia Galotti*, *Nathan der Weise*, *Die Hamburgische Dramaturgie*, *Laokoön*, *Erziehung des Menschengeschlechts*, *Axiomata*, *Anti-Götze*. Reference books: Erich Schmidt's *Lessing*, Kuno Fischer's *Lessing als Reformator der deutschen Literatur*, Kuno Fischer's *Lessing's Nathan*, Baumgart's *Handbuch der Poetik*.

20. Schiller as Philosopher and Writer on Æsthetics.

Open to students who have completed at least two of the following courses: 9, 13, 14, 16, 17, 18, 19, and to others by permission of the department. One hour a week for a year.

Dr. Wipplinger.

Study of Schiller through his correspondence with Körner, Goethe, etc., and his philosophic-æsthetic poems and essays. These are read and discussed in class.

21. Goethe's *Faust*, Parts I. and II.

Open to students who have completed at least two of the following courses: 9, 13, 14, 16, 17, 18, 19, and to others by permission of the department. Two hours a week for a year.

Professor Müller.

Extensive study of Goethe's *Faust* (Thomas's and Schröer's editions), Parts I. and II. The contrasting of the *Volksbuch von Dr. Faust* with Marlowe's *Faustus* and the *Faust-Puppenspiel*. Study of the genesis of Goethe's *Faust*. Comparison of the *Göchhausen* "*Urfaust*" and the fragment of 1790 with the completed First Part, etc., etc.

24. Studies in Current German Literature.

Open to students who have completed at least two of the following courses: 9, 13, 14, 16, 17, 18, 19, and to others by permission of the department. One hour a week for a year.

Professor Müller.

The aim of this course is to acquaint the students with the new style of writing, as well as with the thought and art in the Germany of to-day. This will in part be accomplished by reading in standard German magazines and by a special study of the dramas of Hauptmann, Sudermann, Wildenbruch, Ibsen, and others.

The language of the class room in all these courses is German, except in course 3. In addition to lectures in German there will be constant exercises in speaking.

There is a well selected library of German books, to which students in the higher German courses are constantly referred.

IV. Romance Languages

I. French

‡1. Elementary Course. Grammar, composition, reading, and conversation.

Open to all students. Freshmen four hours, all other students three hours a week for a year.

Miss Caron, Miss Puthod.

Abridged edition of Fraser and Squair's *French Grammar and Prose Composition*, Part I. (Heath & Co.); study of the regular and of the commoner irregular verbs; Conversation based on a visit in Paris and other subjects, largely taken from the second part of Bacon's *New French Course* (American Book Co.); Chateaubriand: *Les Aventures du dernier Abencerage* (American Book Co.); Dumas:

‡ First-year French may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year French if taken after the junior year.

La Tulipe Noire (American Book Co.); Coppée: *Le Luthier de Crémone* (Allen & Bacon); Michelet: *La Prise de la Bastille* (Ginn & Co.).

‡2. Elementary Course. Grammar, composition, reading, and conversation, continued.

Open to all students who have completed course 1 or an equivalent. Freshmen four hours, all other students three hours a week for a year.

Associate Professor Colin, Miss Lydie Caron, Miss Puthod.

Abridged edition of Fraser and Squair's *French Grammar*, Part II., continuation of course 1; Baillot-Brugnot: *French Prose Composition* (Scott, Foresman & Co.); Conversation based on French History and selected subjects; Ernest Lavisse: *La Nouvelle deuxième année d' Histoire de France* (Colin & Co.); Lesage: *Gil Blas* (Heath & Co.); Sandeau: *Mademoiselle de la Seiglière* (Heath & Co.); Daudet: *Trois contes choisis* (Heath & Co.); Colin: *Contes et Saynettes* (Ginn & Co.).

3. Intermediate Course. Grammar and Composition.

Open to students who have completed course 2 or its equivalent. One hour a week for a year. Freshmen two hours a week for a year.

Professor Schaeys, Associate Professor Colin, Miss Caron, Miss Lydie Caron.

Syntax. Drill in letter writing. Short lectures on the formation of the French language, so that the student may become accustomed to take notes on easy French lectures. Borel: *Grammaire française*; Cameron: *French Composition.*

4. Intermediate Course. Reading and discussion in French about the works read, and translation of difficult and idiomatic passages.

‡ First-year French may not be counted toward the B.A. degree if taken after the sophomore year, nor second-year French if taken after the junior year.

Open to students who have completed course 2 or its equivalent. Two hours a week for the first semester.

Associate Professor Colin, Miss Caron, Miss Lydie Caron, Miss Puthod.

Chateaubriand: *Atala et René* (Scott, Foresman & Co., Chicago).

Syms: *Selected letters of Madame de Sévigné* (American Book Co.); Balzac: *cinq Scènes de la Comédie Humaine* (Heath & Co.); Loti: *Pêcheur d'Islande* (Heath & Co.); Rostand: *L'Aiglon* (Brentano).

The aim of this course is to prepare the student for the reading of more advanced literature.

5. Intermediate Course. Conversation and general survey of French Literature.

Open to students who have completed course 2 or its equivalent. Two hours a week for the second semester.

Associate Professor Colin, Miss Caron, Miss Lydie Caron.

Bonnefon: *Ecrivains Célèbres.*

Courses 3, 4, and 5 form together a third year course, and are open to those who have completed courses 1 and 2, or an equivalent.

6. The Salons and the Classic Drama in the XVII. Century.

Open to students who have completed courses 3, 4, 5. Two hours a week for a year.

Professor Schaeys.

The following works are read and discussed. Corneille: *Le Cid*, *Horace*, *Cinna*, *Polyeucte*, *Rodogune;* Racine: *Alexandre le Grand*, *Andromaque*, *Britannicus*, *Iphigénie*, *Phèdre*, *Esther*, *Athalie*; Saint-Simon: Readings from the *Mémoires.* Lectures, reading, and essays.

7. Advanced Grammar and Composition.

Open to students who have completed courses 3, 4, 5. One hour a week for a year.

Professor Schaeys.

Borel: *Grammaire française.* Summaries and brief essays.

8. Life and Works of Victor Hugo.

Open to students who have completed courses 3, 4, 5. One hour a week for a year.

Miss Caron.

This writer will be studied as novelist in *Les Misérables*, *Notre Dame de Paris*, *Quatre-vingt treize;* as dramatist in *Hernani*, *Cromwell*, *Les Burgraves;* and as poet in *La Légende des Siècles*, *Odes et Ballades*, *Les Orientales* and other selections. Lectures, critical reading, essays.

9. French Literature in the XVIII. Century.

Open to students who have completed course 6. Three hours a week for a year.

Miss Lydie Caron.

This course will discuss the life, time, and influence of Voltaire, Montesquieu, Jean-Jacques Rousseau; the drama and the novel as presented in the works of Voltaire, Regnard, Lesage, Marivaux, La Chaussée, Rousseau, Beaumarchais. It will include also a study of the political and philosophical writings of Rousseau (*Contrat social*, *Emile*); of Montesquieu (*Esprit des Lois*); of Diderot (*Encyclopédie*). Lectures, collateral reading, essays.

10. French Literature in the XIX. Century.

Open to students who have completed course 6. One hour a week for a year.

Miss Caron.

Study of the principal authors of the nineteenth century, and of contemporary literature. Lyric poetry, the Drama, and the Novel. Lectures, critical reading, and papers.

11. Introductory studies in Old French and Old French Literature.

Open to juniors and seniors by permission of the department. Two hours a week for a year.

Associate Professor Colin.

Translation into Modern French from *La Chanson de Roland*. Selections from *Chrétien de Troyes*, *Aucassin et Nicolette*, *La Vie de St. Alexis*. History of Literature to the beginning of the thirteenth century. Gaston Paris: *Manuel de la littérature française du moyen âge*. Lectures, additional reading, papers.

12. The Comedy of the XVII. Century.

Open to students who have completed course 6. Two hours a week for a year.

Associate Professor Colin.

The following works are read and discussed. Corneille: *Le Menteur;* Racine: *Les Plaideurs;* Life and Works of Molière; *Les Précieuses Ridicules*, *Les Femmes Savantes*, *Le Bourgeois Gentilhomme*, *Le Misanthrope*, *Le Tartuffe*. Lectures, collateral reading, essays.

13. Romanticism and Naturalism in the XIX. Century.

Open to students who have completed course 6. Two hours a week for a year.

Miss Caron.

Study of the principal works. Lectures, critical reading, and papers.

*14. French Literature in the XVI. Century.

Open to students who have completed course 6. Two hours a week for the second semester.

Professor Schaeys.

Study of Italian influences: The Renaissance; Marot; the Pleïade; beginnings of the classic drama; Rabelais; Montaigne; the Reformation; Calvin. Lectures, collateral reading, essays.

*15. Middle Age Romance Literature.

Open to students, by permission of the department, who have completed at least two two-hour courses in French Literature. Three hours a week for a year.

Miss Caron.

* Not offered in 1904–1905.

The rise and development of epic literature in mediæval Europe. A study in comparative literature based on the French cycles, with special reference to the Romance languages. Lectures, discussions, reading, and papers.

17. Time, Life and Works of Lafontaine.

Open to students who have completed courses 3, 4, 5. One hour a week for a year.

Miss Lydie Caron.

Special attention is given to the history of fables, to the influence of the classics, and the general conception of the fable. Lectures, reading, essays.

‡†18. Translation Course.

Open to students above freshman rank. Three hours a week for a year.

The object of this course is to give to students who have offered no French for admission a fair reading knowledge for use in the departments of history, literature, art, and science, from which subjects selections for reading will be made in the second semester.

Course 18 will be conducted in English.

‡†16. Reading Course.

Open to students who have completed course 18 or who have met the minimum B admission requirement in French. Freshmen four hours, all other students three hours a week for a year.

An advanced translation course along the lines of course 18, conducted in English.

*19. Advanced reading in sources of French History.

Open to students who have completed at least three full courses in French. One hour a week for a year.

* Not offered in 1904–1905.

† Withdrawn for the current year.

‡ First-year French may not count toward the B.A. degree if taken after the sophomore year, nor second-year French if taken after the junior year.

*20. Historical French Grammar in its relation to the development of the language.

Open to graduates and seniors who have completed two full college courses in French, including course 7 or its equivalent. One hour a week for a year.

Professor Schaeys.

The history of the French language will be traced from its origin to the present time; illustrated by studies in grammar and reference to the best authorities, such as Brunot, Gaston Paris and others.

II. Italian

1. Elementary Course.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Associate Professor Jackson.

Grammar with written and oral exercises; reading and sight translation; conversation.

2. Intermediate Course.

Open to students who have completed course 1. Three hours a week for a year.

Associate Professor Jackson.

Grammar, prose composition; reading and translation at sight: in the first semester from modern authors; in the second semester from the classic authors.

3. History of Italian Literature in the XIII. and XIV. Centuries. Emphasis on Dante.

Open to students who have a reading knowledge of Italian, on consultation with the instructor. Three hours a week for a year.

Associate Professor Jackson.

Selections from the *Vita Nuova* and the *Divina Commedia* of Dante. The Sonnets of Petrarch and the Tales of Boccaccio will be read in the original.

* Not offered in 1904–1905.

*4. History of Italian Literature in the XIX. Century.

Open to students who have completed courses 1 and 2, or equivalents. Three hours a week for a year.

Associate Professor Jackson.

5. Dante and the early Italian Renaissance. English course.

Open to juniors and seniors. Three hours a week for a year.

Associate Professor Jackson.

First semester: Dante's *Divine Comedy* (in English) and the conditions of the age which produced it. Second semester: The early Italian Renaissance as expressed in the works of Petrarch, Boccaccio, Niccolo Pisano, Arnolfo, and Giotto. A knowledge of Italian is not required.

*6. Italian Life and Literature of the later Renaissance.

Open to juniors and seniors. Three hours a week for a year.

Associate Professor Jackson.

The object of this course is to give some knowledge of a country, an age, and a literature which have exercised a deep influence on English thought. While it is a continuation of course 5, the latter is in no way a prerequisite.

NOTE.—The Dante Society offers an annual prize of one hundred dollars for the best essay on a subject drawn from the life or works of Dante. The competition is open to students or graduates of not more than three years' standing from colleges or universities in the United States. For subjects and conditions consult page 519 of the Harvard University Catalogue, 1903–1904.

III. Spanish

1. Elementary Course.

Open to juniors and seniors. Three hours a week for a year.

Miss Solano.

* Not offered in 1904–1905.

Grammar: written and oral exercises; Worman: *First Spanish Book;* conversation; prepared and sight translation; *Doce Cuentos escogidos;* Alarcón: *El Capitán Veneno;* Moratín: *El Sí de las Niñas;* Bretón de los Herreros: *La Independencia;* Cervántes: *El Cautivo* from *Don Quijote.* Beginning of Spanish Literature; formation and origin of the language.

†2. Intermediate Course.

Open to students who have completed course 1. Three hours a week for a year.

Miss Solano.

Grammar of the Spanish Academy in Spanish. Prosody and syntax; Spanish Literature, especially authors of Golden Age and modern authors; ballads of *The Cid;* Lope de Vega: *La Estrella de Sevilla;* Calderón: *El Alcalde de Zalamea;* Cervántes: *Don Quijote;* Valera: *Pepita Ximénez;* Pérez Galdós: *Doña Perfecta;* Palacios Valdés: *Marta y María.*

V. English

1. General Survey.

Required of freshmen. Two hours a week for a year.

Miss Burnham, Miss Brigham, Miss Strong, Miss Howard.

First semester: exposition; description; narration. Weekly themes. Second semester: critical study of the essay, and of the structure of the short story. Fortnightly themes.

2. Critical Exposition and Argumentation.

Required for a degree. Open to students who have completed course 1. Two hours a week for a year.

Associate Professor Waite, Miss Taylor.

Fortnightly themes, or their equivalent. Studies in criticism, in argumentative masterpieces, and in forms of fiction.

† Withdrawn for the current year.

3. Argumentative Composition.

Required for a degree. Open to students who have completed course 2 or 12. One hour a week for a year.

Miss Perry.

Forensics preceded by briefs; class discussion of briefs and forensics; illustrations from masterpieces of argumentation; lectures on logic.

NOTE.—If a student submits papers notably deficient in English as part of her work in any department, she will incur a condition in English, whether she has completed the required courses in English or not.

8. Studies in Verse Forms.

Open to juniors and seniors. Three hours a week for a year.

Associate Professor Waite.

Lectures on the theories and history of English verse forms, illustrated by class reading and discussion.

6. Long and Short Themes.

Open to students who have completed course 2 or 12. Two hours a week for a year.

Associate Professor Hart.

Four short themes or their equivalent per week. Long themes at stated intervals. Critical analysis in the class room of themes submitted.

7. Old English. Elementary Course.

Open to students who have completed course 1 or 12. Three hours a week for a year.

Dr. Lockwood.

Cook's *First Book in Old English; Beowulf; The Andreas;* selections from the prose of Alfred and Alfric.

10. The Theory and History of Criticism.

Open to juniors and seniors. One hour a week for a year.

Associate Professor Hart.

Lectures on Plato, Aristotle, Sidney, Ben Jonson, Dryden, Pope, Boileau, Addison; the more important 19th century critics in England and Sainte-Beuve, Taine, Hennequin, Brunetière in France.

11. History of the English Language.

Open to students who have completed course 1 or 12. Three hours a week for a year.

Associate Professor Waite.

Lounsbury's *English Language;* Skeat's *Etymological Dictionary;* lectures on questions of usage in English speech.

12. Principles of Rhetoric and Composition.

Open to freshmen only. Five hours a week for a year.

Miss Strong.

First semester: the elements and qualities of style; analysis of the essay; weekly themes. Second semester: translation; description; analysis of the short story; principles of argumentation; fortnightly themes. This course will cover the required work in English and will count in addition as a one-hour elective.

13. Old English, Advanced Course.

Open to students who have completed course 7. Two hours a week for a year.

Dr. Lockwood.

Sievers-Cook: *Grammar of Old English;* Cynewulf: *the Crist; the Elene; the Juliana; the Riddles.*

14. Middle English.

Open to juniors, seniors, and graduates who have completed English 7 or 13. Two hours a week for a year.

Dr. Lockwood.

15. Debates.

Open to students who have completed course 2 or 12. Two hours a week for a year.

Miss McCaulley.

This course may be taken by juniors instead of English 3, and will count as equivalent to that course and a one-hour elective.

16. Advanced Course in English Composition.

Open to students who have completed course 6. Three hours a week for a year.

Associate Professor Hart.

Studies in structure and style with frequent practice in writing.

A course of six lectures on Logic is given by Associate Professor Gamble of the department of Philosophy in connection with courses 2, 3, and 15.

VI. Comparative Philology

1. General introduction to the Science of Language.

Open to seniors, and to juniors by permission of the instructor. Two hours a week for a year.

Associate Professor Edwards.

Lectures on the origin and nature of language and principles of its life and growth; outline studies in phonetics; classification of languages; groups of Indo-European languages with chief characteristics.

*3. Comparative Grammar of Greek and Latin.

Open to seniors, and to juniors by permission of the instructor. Three hours a week for the second semester.

Associate Professor Edwards.

Historical treatment of the sounds and inflections of Greek and Latin in relation to other Indo-European languages.

* Not offered in 1904–1905.

*4. Historical Latin Grammar; Syntax.

Open to graduates who have completed three full courses in Latin. Two hours a week for a year.

Professor Hawes.

Lectures on the history of work in Latin syntax, especially during the present century. The course will be devoted mainly to the syntax of the verb, considering the primitive meaning and historical development of the modes and tenses. Students will be expected to summarize and compare the discussions of the subject in the most important grammars and treatises, and also to collect material for the study of special problems in Latin syntax.

5. Sanskrit.

Open to seniors, and to juniors by permission of the instructor. One hour a week for a year.

Associate Professor Edwards.

6. Gothic.

Open to seniors, and to juniors by permission of the instructor, who offer at least a reading knowledge of German. Two hours a week for the first semester.

Miss Pirscher.

Reading of Ulfilas, with constant reference to the syntax, phonology, and etymology of the language. Presentation of fundamental principles in Germanic Philology.

13. Old English, Advanced Course.

Open to students who have completed course 7. Two hours a week for a year.

Dr. Lockwood.

Sievers-Cook: *Grammar of Old English;* Cynewulf: *the Crist; the Elene; the Juliana; the Riddles.*

* Not offered in 1904–1905.

VII. Biblical History, Literature, and Interpretation

I. Hebrew

1. Elementary Hebrew.

Open to juniors and seniors. Three hours a week for a year.

Miss Wheelock.

An inductive study of the elements of Hebrew and principles of syntax in connection with the text of the first few chapters of Genesis. Word lists, translation from the book of Ruth and other selected passages. Harper's *Introductory Hebrew Method;* Harper's *Hebrew Syntax.*

II. Biblical History

The requirement in Biblical History for a degree is met by taking courses 1 or 10, and *one* of the following courses: 3, 4, 5, 6, 8.

1. Studies in Hebrew history from the settlement of Canaan to the Maccabean Period.

Required of sophomores. Two hours a week for a year.

Associate Professor Locke, Associate Professor Breyfogle, Dr. Kendrick.

10. The Development of Thought in the Old Testament.

Open to sophomores. Three hours a week for a year.

Associate Professor Breyfogle.

It is the purpose of the course to offer (*a*) political and social studies in Hebrew History to the period of Judaism; (*b*) a survey of the development of thought in the Old Testament as shown in the prophetic, priestly, and wisdom literature.

This course counts as equivalent to Biblical History 1 and a one-hour elective.

3. The Historical Development of New Testament Thought.

Open to juniors and seniors. Two hours a week for a year.

Associate Professor Breyfogle.

A course in general introduction to the New Testament writings, studying them in their historical setting and paying special attention to the development of their thought. Lectures, reading, and essays.

4. Life of Christ.

Open to juniors and seniors. Two hours a week for a year.

Associate Professor Locke.

This course includes an outline study of the life of Christ—his land, people, and times,—and a special study of some of his teachings.

*5. Greek Testament I. Life of Christ; text study of the Gospels; special study of the Gospel of St. John; lectures.

Open to juniors and seniors who have completed course 1 of Classical Greek. Two hours a week for a year.

Professor Chapin.

6. Greek Testament II. Studies in the life and literature of the Apostolic Age. Readings from the book of Acts, the Epistles, and the early extra-canonical literature in Greek.

Open to juniors and seniors who have completed course 1 of Classical Greek. Two hours a week for a year.

Professor Chapin.

†7. Sources of New Testament Greek in the Septuagint. Quotations from the Old Testament in the New;

* Not offered in 1904–1905.
† Withdrawn for the current year.

lectures. Illustrative readings, chiefly from the Psalms in Greek.

Open to students who have completed Greek Testament I. One hour a week for a year.

Professor Chapin.

8. History of the Christian Church during the first century of the Christian Era.

Open to juniors and seniors. Two hours a week for a year.

Dr. Kendrick.

A study of the life and growth of the early Church and of the lives and teachings of its leaders, with especial emphasis on the work of Paul. A rapid preliminary view of the condition of the Jewish and Roman world in the time of Jesus, and of the origin of Christianity. Given by lectures, readings from the literature of the first century, and the study of the book of Acts.

9. History of Religions.

Open to seniors. Three hours a week for a year.

Associate Professor Locke.

Introductory study of primitive religions; followed by an outline comparative study of the rise and development of the leading historic faiths.

Lectures, reports of special study, discussions.

11. The Synoptic Problem.

Open to students who are taking courses 3, 4, or 8. One hour a week for a year.

Associate Professor Breyfogle.

This is a course in the study of Matthew, Mark, and Luke, with special endeavor to discover the sources of these Gospels, and the original basis of their dependence upon one another. Special emphasis is laid upon the words of Jesus with an attempt to discover the primary form of these works.

VIII. English Literature

1. Outline History of English Literature.

Open to all students. Freshmen four hours, all other students three hours a week for a year.

Dr. Shackford, Dr. Tibbals.

The object of this course is to give the student a general survey of English literature and to prepare the way for more specialized work. The course is conducted by lectures and by critical studies of selected masterpieces.

A syllabus of the historical work is sold by the department.

2. American Authors.

Open to students who have taken or are taking course 1, and to all seniors. Three hours a week for a year.

Mr. Young.

The course will follow the history of American literature and will study in detail some representative authors of the National era. Effort will be made to interpret the American character and to indicate its ideals.

3. Ballad and Lyric Poetry.

Open to students who have taken or are taking course 1. Three hours a week for a year.

Associate Professor Jewett.

This course will include studies of the English ballad, and of various forms of lyric. Close study will be given to Elizabethan songs and sonnets, with briefer comparative work in earlier and later lyrics.

4. Milton.

Open to students who have taken or are taking course 1. Three hours a week for a year.

Dr. Lockwood.

The primary object of this course is the critical study of Milton as a master in lyric, epic, and dramatic poetry, and

as a writer of notable prose. The character and genius of the poet are considered as influenced by the political and religious conflict of the times. Special emphasis is placed on the comparison of Milton's work with that of other great writers who have used the same literary forms.

5. English Prose, exclusive of Fiction, from Sidney to Carlyle.

Open to students who have taken or are taking course 1. Three hours a week for a year.

Dr. Shackford.

The aim of this course is to teach the development of English prose style, to examine the chief prose forms perfected, and to study the personality and influence of each of the more important writers.

6. Victorian Prose.

For conditions of entrance see final note. Three hours a week for a year.

Mr. Young.

The course will deal especially with Dickens, Thackeray, George Eliot, Arnold, Newman, Carlyle, and Ruskin. Attention will also be given to the historical background, and to the work of minor men.

7. English Poetry of the XIX. Century.

For conditions of entrance see final note. Three hours a week for a year.

Associate Professor Jewett.

This course considers the work of the great Georgian and Victorian poets in their relation to one another and to contemporary movements, political, social, ethical, and æsthetic.

8. English Literature of the XIV. Century.

For conditions of entrance see final note. Three hours a week for a year.

Associate Professor Jewett, Dr. Bowen.

The course will include a chronological study of the major portion of Chaucer's work. Attention will be given to Chaucer's chief French and Italian sources, to contemporary English literature and social conditions. Special study will be put upon Langland's *Piers Plowman* and upon *The Pearl*. A syllabus for the Chaucer work may be obtained from the department.

9. English Drama through Shakespeare.

For conditions of entrance see final note. Three hours a week for a year.

Professor Bates.

This course attempts to trace the dramatic evolution from the Easter Mystery to Shakespeare, to observe the structure and artistic principles of the Elizabethan drama, and to study closely a few of Shakespeare's plays, with reading and discussion of the others. A syllabus sold by the department furnishes bibliographical data for the work

10. Historical Development of English Literature.

For advanced students. For conditions of entrance see final note. Three hours a week for a year.

Associate Professor Scudder.

This course follows the development of English Literature from the earliest times to the present. It is designed to supplement the more detailed courses already taken by a general survey, which shall reveal causes and relations.

11. Modern Authors.

This course is primarily intended for graduate students. Open to seniors only by special permission. Three hours a week for a year.

Professor Bates.

Two significant authors are chosen each year for close and comprehensive study. The authors considered in 1901–1902 were Ruskin and Morris; in 1902–1903 Shelley and Browning; in 1903–1904 Wordsworth and Coleridge; those selected for 1904–1905 are Rossetti and Swinburne.

14. English Masterpieces.

Open only to seniors who have completed no full course in English Literature, or course 1 only. Three hours a week for a year.

Mr. Young.

This course is intended to develop a sympathetic appreciation of literature through the study of chosen masterpieces.

*15. Shakespeare's Contemporaries and Successors.

Open to all students except freshmen. One hour a week for a year.

Associate Professor Sherwood.

Lectures with library readings. Selected dramas from the successive dramatic periods, Jacobean, Restoration, Eighteenth Century, Georgian, Victorian, will be studied.

16. Old English Literature of the Anglo-Saxon Period.

Open to freshmen only. Four hours a week for a year.

Dr. Bowen.

The purpose of this course is to study chosen masterpieces of English Literature from the seventh to the eleventh century.

17. Development of English Prose Fiction to 1800.

Open to all students except freshmen. One hour a week for a year.

Associate Professor Sherwood.

The work will extend from the chivalric romance through the sixteenth-century experiments with new types, and the eighteenth-century development of the novel, to selected masterpieces of Jane Austen and of Scott.

* Not offered in 1904–1905.

20. The Poetry of Spenser.

Open to students who have taken two full courses, or who are taking a second course. Three hours a week for the first semester.

Dr. Bowen.

The course will include the greater part of the *Faery Queene* and all the minor poetry of Spenser.

21. Studies in Arthurian Romance.

Open to students who have taken two full courses, or who are taking a second course. Three hours a week for the second semester.

Associate Professor Scudder.

The course will open with Malory's *Morte Darthur*, and thence work backward to a study of certain earlier forms of Arthurian romance. The Grail-Cycle will receive especial attention.

22. English Romanticism.

Open to students who have had two courses in English Literature. Three hours a week for a year.

Associate Professor Sherwood.

A study of the Romantic Movement, designed to bring out, through investigation of selected works, certain phases of the relation of English to German Literature, and of English to French Literature, during the period of reaction in the late eighteenth and the early nineteenth century.

NOTE.—Courses in English Literature are elective, with the following restrictions:—

Students proposing to elect a single full course should take 1, with the exception of seniors desiring course 2 or course 14, and of freshmen, to whom 16 is the only other course open.

Students proposing to elect two courses only should take 1, followed by 2 or 3 or 4 or 5 or 8, with the exception of seniors desiring course 14.

Students proposing to elect a three-course major should take the initial historical course 1; then one of the critical

courses, 2 or 3 or 4 or 5; and finally one of the courses presenting literary epochs or movements, 6, 7, 8, 9, 20 and 21, 22.

Students proposing to elect a four-course major should make one of the following combinations: A, 16, 8, 9 or 20, 6 or 7; B, 8, 9 or 20, 6 or 7, 10.

Either half of any one of courses 2, 3, 4, 5, 6, 7, may be taken as a complete semester course, by permission of the department.

IX. Philosophy and Psychology

For requirement in Philosophy, and for other details, see Notes following description of courses.

1. Introduction to Psychology.

Open to juniors and seniors, and to sophomores by permission of the department. Three hours a week for the first semester.

Professor Calkins.

Analysis and classification of the phenomena of consciousness. Calkins: *Introduction to Psychology.*

7. Introductory Course in Experimental Psychology.

Open to juniors and seniors, and to sophomores by permission of the department. Three hours a week for a year.

Associate Professor Gamble, Professor Calkins.

This course includes laboratory work under supervision: experiments in sensation and affection, in reaction-times, and in attention, association, and memory; lectures to explain and to supplement experimental observations and conclusions; written reports of experimental work. Calkins: *Introduction to Psychology;* Titchener: *Laboratory Manual.*

The work in psychology will be supplemented by a brief course introductory to philosophical study. Berkeley's *Principles of Human Knowledge* will be read.

15. Reading and Research Course in Psychology.

Open to students who have completed course 7 and to others by permission. Three or six hours a week for a year.

Associate Professor Gamble.

Investigation, experimental or statistical, by individual students of special problems; written reports. Meetings of the class, in separate divisions, for the reading of French and German psychological texts.

†17. Introductory Reading Course in Psychology.

Open to students only in combination with a required course in the department. One hour a week for a year.

Associate Professor Case.

Reading of selected passages from James's *Psychology*, Locke's *Essay concerning Human Understanding*, and other works, arranged to supplement and elucidate the required courses.

*18. Advanced Course in General Experimental Psychology.

Open to graduate students, and to seniors by permission. Three hours a week for a year.

Associate Professor Gamble.

*3. Logic.

Open to sophomores, juniors, and seniors. Three hours a week for the first semester.

Associate Professor Gamble.

Training in argument and in logical criticism. Work expressly designed to meet the practical needs of the student. Creighton: *Introductory Logic.*

See Note 2, page 79.

2. Æsthetics.

Open to students who have completed course 1. Three hours a week. Offered at present in the first semester only.

Dr. Puffer.

* Not offered in 1904–1905.

† Withdrawn for the current year.

Lectures, historical and constructive; simple experiments in psychological æsthetics; analysis of concrete examples of beauty; collateral reading.

16. Social Ethics.

Open to students who have completed course 1. Three hours a week for the second semester.

Associate Professor Case.

Ethics approached from the social side. Lectures on social psychology and on the scope of social philosophy, the nature of society and social institutions, and the nature of the good. Aristotle's *Nicomachean Ethics* and Cooley's *Human Nature and the Social Order.*

†13. Historical Studies in Ethics.

Open by permission as fourth course of a major. Prerequisites must be arranged with the department. Three hours a week for a year.

Associate Professor Case.

Subject of the course varied from year to year. Topic proposed for the first semester of 1904–1905: English hedonism.

6. Introduction to Philosophy.

Open to students who have completed course 1. Three hours a week for the second semester.

Professor Calkins.

Discussion of metaphysical problems based on Books II. and IV. of Locke's *Essay concerning Human Understanding;* selections from Hobbes's *Concerning Body;* Berkeley's *Principles of Human Knowledge* and *Dialogues between Hylas and Philonous.*

10. Greek Philosophy.

Open to students who have completed course 6 or 7 or 16. Three hours a week for a year.

Associate Professor Case, Dr. Puffer.

† Withdrawn for the current year.

Text study, lectures, discussions. Fragments of the pre-Socratic philosophers; Xenophon's *Memorabilia* (selections); Plato: most of the dialogues, with critical study of nine; Aristotle: *Psychology* and selections from his other writings, with lectures on his *Metaphysics*. Lectures on post-Aristotelian philosophy.

9. Leibniz and Hume; Kant and Schopenhauer.

Open to students who have completed course 6 or 7 or 16. Three hours a week for a year.

Professor Calkins.

Lectures and discussions. Text study of Leibniz's *Discourse on Metaphysics*, *Monadology*, *Correspondence with Arnauld*, *Principles of Nature and Grace*, and selections from the *New System;* Hume's *Treatise on Human Nature*, Book I.; Kant's *Critique of Pure Reason* (with omissions), and selections from his ethical works; Schopenhauer's *Fourfold Root*. Lectures on post-Kantian German philosophy.

11. Advanced Course in Modern Philosophy.

Open by permission as fourth course of a major. Prerequisites must be arranged with the department. Three hours a week for a year.

Professor Calkins, Associate Professor Case.

Lectures, reports of special study, discussions. Subject of the course varied from year to year. In 1904–1905, text study of Spinoza's philosophical works, and of Hegel's *Logic of the Encyclopedia*.

*12. Philosophy of Religion.

Open by permission as fourth course of a major. Prerequisites must be arranged with the department. Three hours a week for a year.

Associate Professor Case.

In 1903–1904 the starting-point of the discussions was Royce's *The World and the Individual*. The reading

* Not offered in 1904–1905.

included Hegel's *Philosophy of Religion*, Part III. and selections.

NOTES.—1. The requirement in Philosophy for a degree is met by taking course 1 (first semester), followed by course 6 or 16 (second semester); or by taking course 7 (full year course). Course 6 is also open as an elective course.

2. A brief course of lectures in Logic is given by the department in courses 2, 3, and 15 of the department of English.

3. Course 1, with 6 or 16, or course 7 may often with great advantage be carried in the sophomore year. A student who wishes to take course 11, 12, or 13 as undergraduate work, can meet the prescribed conditions only by obtaining permission either to take this required work in the sophomore year, or to carry 9 or 10 in the junior year, simultaneously with the required work.

4. By permission either semester of 9, 10, 11, 12, 13, and 15 may be taken separately.

By permission 9 or 10 may be taken simultaneously with its prerequisites: courses 1, and 16 or 6; or course 7.

5. Course 15 may be repeated by a student who has not already taken the maximum number of hours offered; it then counts as three hours per week for either semester.

6. The department also offers direction to graduate students in independent work in psychology or in philosophy.

X. History

‡1. Political History of England to 1603.

Open to freshmen, sophomores, and juniors, and to seniors who have taken no college course in history. Freshmen four hours, all others three hours a week for the first semester.

Professor Kendall.

‡2. Political History of England from 1603 to the present time.

Open to sophomores, juniors, and seniors, and to freshmen who have completed course 1, or who offer English

‡Courses 1 and 2, or 3, are prerequisite to later elections. These courses will not both count toward a three-course major.

History as an admission subject. Freshmen four hours, all others three hours a week for the second semester.

Professor Kendall.

NOTE.—The aim of these courses is to train students in the use of historical material and in dealing with historical problems. Emphasis is placed on political, social, and industrial conditions in relation to race development.

‡3. History of Europe from the Roman Conquest to the Peace of Westphalia.

Open to freshmen, sophomores, juniors, and seniors. Freshmen four hours, all others three hours a week for a year.

Miss Moffett.

This course furnishes an outline of mediæval and early modern history, and deals with the simpler political and social problems. It aims to train students in methods of historical work, and to furnish a background for detailed study of particular epochs.

4. History of the French Revolution.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Dr. Cabot.

This course involves (1) an introductory discussion of the condition of France on the eve of the Revolution; (2) a detailed study of the progress of the Revolution and of the reaction against democratic tyranny culminating in Imperialism; (3) an inquiry into the influence of revolutionary ideas in the subsequent history of France, Germany, Austria, Italy, Spain, and Russia.

5. Constitutional History of England to 1485.

Open to juniors and seniors. Three hours a week for the first semester.

Miss Moffett.

A study of the origin and early development of the English constitution. Stubbs is the principal authority. The class has access to the text of charters and laws.

‡ Courses 1 and 2, or 3, are prerequisite to later elections. These courses will not both count toward a three-course major.

6. Constitutional History of England from the accession of the Tudors.

Open to juniors and seniors. Three hours a week for the second semester.

Miss Moffett.

A study of the later development of the English constitution, the rise of party and cabinet government, and the establishment of popular control.

7. History of the United States from 1787.

Open to juniors and seniors. Three hours a week for a year.

Professor Kendall.

A study of the formation and development of the constitution of the United States, with special reference to controlling forces, such as the organization of parties, the growth of democracy, the rise of the slave power, the political effects of the development of the West.

8. The Period of the Reformation.

Open to juniors and seniors. Three hours a week for a year.

Miss Moffett.

A study of the intellectual, religious, and social life of the 16th century, and of the institutions and movements which were its outcome.

9. History of the diplomatic relations of the States of Europe from the accession of Frederick the Great to the present day.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Dr. Cabot.

This course includes (1) a review of the changes in Europe since the Treaties of Westphalia; (2) the Age of Frederick the Great; (3) the change made in European relations by the French Revolution; and (4) the Age of Bismarck.

10. American Colonial History.

Open to juniors and seniors who have completed two full courses in history. Three hours a week for a year.

Professor Kendall.

A study of the establishment and development of the English colonies in America, concluding with a detailed consideration of the conditions which led to a separation from the mother country.

11. History of Political Institutions.

Open to juniors and seniors. Three hours a week for the first semester.

Professor Kendall.

This is an introductory course in the comparative study of the origin, character, development, and aim of political institutions.

12. Growth of the British Empire.

Open to juniors and seniors who have completed two full courses in history. Three hours a week for the second semester.

Professor Kendall.

This course includes (1) a historical review of the development of the empire; (2) a study of the changes of colonial policy; (3) a study of colonial administration; and (4) a discussion of present colonial problems.

*13. History of Rome from the earliest times to the barbarian invasions.

Open to sophomores, juniors, and seniors who have completed courses 1 and 2, or 3, or who have offered Roman History for admission. Three hours a week for a year.

Miss Orvis.

A study of the development of Rome into a world power and its effects on her domestic institutions.

* Not offered in 1904–1905.

XI. Economics and Sociology

1. Elements of Economics.

Open to sophomores, juniors, and seniors; to freshmen who receive permission from the head of the department. Three hours a week for the first semester.

Professor Coman, Dr. Cutler.

An introductory course designed to give the student some acquaintance with economic facts and training in economic reasoning. Illustrations will be drawn from actual observation.

2. Industrial History of the United States.

Open to students who have completed two courses in Economics. Three hours a week for a year.

Professor Coman.

A study of our national development in its material and social aspects, accompanied by a critical review of economic legislation, commercial and financial.

3. Industrial History of England.

Open to students who have completed two courses in Economics. Three hours a week for the first semester.

Professor Coman.

A study of the evolution of industrial forms, more especially of villeinage, gilds, the domestic system, the factory system, and modern commerce.

*4. Socialism.

Open to students who have completed two courses in Economics. Three hours a week for the first semester.

Associate Professor Balch.

A study of socialist theories, "utopian" and "scientific," in their historical development, with some consideration of modern socialist parties, and especially of German Social Democracy.

* Not offered in 1904–1905.

†5. Statistical study of certain economic problems.

Open to students who have completed two courses in Economics. Three hours a week for the second semester.

Professor Coman.

The course is introduced by lectures on the principles of statistical research. Each member of the class undertakes the investigation of a particular problem, and reports the results of her inquiry to the class. The graphic method of presenting statistical results is emphasized.

6. Social Economics I.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for the first semester.

Dr. Cutler, Mr. Robert A. Woods.

A study of the delinquent, defective, and dependent classes, accompanied by discussion of methods of dealing with each.

7. Social Economics II.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for the second semester.

Dr. Cutler, Mr. Woods.

A discussion of methods of meeting certain normal social needs, such as housing, sanitation, education, and recreation, accompanied by a critical discussion of the principles and actual boundaries of self-help and collective action.

8. The Modern Labor Problem.

Open to students who have completed two courses in Economics. Three hours a week for the second semester.

Dr. Cutler.

A study of the modern industrial system of wage labor as compared with earlier forms of production; of special difficulties, such as "sweating" and child labor, and of

† Withdrawn for the current year.

modifications, such as profit sharing and co-operation, trade unionism and arbitration, factory laws, insurance, and "employers' welfare institutions." American experience will be dwelt upon in the main.

*9. An Introduction to General Sociology.

Open to juniors and seniors who have completed two courses in Economics. Three hours a week for a year.

Associate Professor Balch.

A study of facts and theories of social development, and more especially of the growth of institutions such as the family, the state, law and property.

A reading knowledge of French and German is desirable.

*10. Public Finance.

Open to students who have completed two courses in Economics. Three hours a week for a year.

Professor Coman.

First semester: economic functions of the State, problems of revenue and expenditure. Second semester: problems in municipal finance.

11. Business Methods and Business Law.

Open to all students. Three hours a week for the second semester.

Dr. Cutler.

This course is intended to train the student to deal intelligently with ordinary business situations.

12. Practical Problems in Economics.

Open to students who have completed course 1. Three hours a week for the second semester.

Professor Coman.

The subject for 1904–1905 is a study of contemporary industrial combinations with a view to estimating their good and evil effects, coupled with some discussion of legislation, state and national.

Courses 11 and 12 normally follow course 1, and either of these courses with course 1 constitutes the work of the first year in economics.

* Not offered in 1904–1905.

XII. Pure Mathematics

1. Required course for freshmen.

Four hours a week for a year.

(*a*) Solid and Spherical Geometry.

Three hours, first semester.

(*b*) Higher Algebra.

One hour, first semester; two hours, second semester.

The subjects included are: Functions and Theory of Limits, Derivatives, Development of Functions in Series, Convergency of Series, Theory of Logarithms, Determinants, Theory of Equations (including Sturm's Theorem). (Taylor's *College Algebra*.)

(*c*) Plane Trigonometry.

Two hours, second semester.

The angular analysis, including transformations, trigonometric equations and inverse functions, is fully treated, as well as the solution of triangles and the practical use of the tables.

Associate Professor Chandler,
Associate Professor Merrill, Dr. Vivian,
Miss Hathaway, Miss Young.

2. Conic Sections and Plane Analytical Geometry.

Open to students who have completed course 1. Three hours a week for a year.

Professor Burrell, Dr. Vivian.

A brief course in geometrical conics is given in connection with the usual analytical work, with correlated work in geometrical drawing.

12. Algebraic and Trigonometric Analysis.

Open to students who have completed course 1. One hour a week for a year.

Dr. Vivian.

Fundamental concepts of algebra, including the number-system; the complex variable; De Moivre's Theorem; further work in series; trigonometry as a part of pure algebra; the fundamental theorem of algebra; the hyperbolic functions.

3. Differential and Integral Calculus.

Open to students who have completed course 2. Three hours a week for a year.

Associate Professors Chandler and Merrill.

The applications include a course in curve tracing.

†4. Theory of Equations, with Determinants (Burnside and Panton).

Open to students who have completed course 3. Three hours a week for the first semester.

Associate Professor Chandler.

†5. Solid Analytical Geometry (C. Smith).

Open to students who have completed course 3. Three hours a week for the second semester.

Associate Professor Chandler.

6. Modern Synthetic Geometry.

Open to students who have completed course 2. Three hours a week for a year.

Professor Burrell

Metrical and projective properties of plane and sheaf forms of the first and second orders; the anharmonic ratio; harmonic forms; the method of inversion; involution; collineation; the law of duality; theory of poles and polars; reciprocation; space forms and surfaces of the second order. Given by lectures and references.

† Withdrawn for the current year.

†9. Higher Analysis.

Open to students who have completed course 3. Three hours a week for a year.

Associate Professor Merrill.

Among the topics discussed in this course are: definite integrals; Gamma and Beta functions; infinite series and products; Fourier series; elliptic integrals; the elements of the theory of functions of a complex variable.

10. Differential Equations (Forsyth).

Open to students who have completed course 3. Three hours a week for a year.

Associate Professor Chandler.

11. Projective Geometry.

Open to students who have completed course 3, and have taken or are taking course 6. Three hours a week for a year.

Professor Burrell.

A lecture course, introductory to the principles of modern geometry. The method of treatment is analytic.

XIII. Applied Mathematics

†1. Introduction to the Mathematical Treatment of Science.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Professor Hayes.

†3. Thermodynamics.

Open to students who have completed course 1. Three hours a week for the first semester.

Professor Hayes.

†4. Theoretical Mechanics.

Open to students who have completed course 1. Three hours a week for the first semester.

Professor Hayes.

† Withdrawn for the current year.

This course is a continuation of course 1, and is devoted to the furthur development of the principles of kinematics, statics, and kinetics.

†5. Geodynamics.

Open to juniors and seniors properly qualified. Three hours a week for the second semester.

Professor Hayes.

Both the astronomical and geological aspects of the subject are emphasized. In general, the topics discussed are: precession, nutation; form, size, density of the earth; thermal condition of the earth, theories concerning its crust.

XIV. Chemistry

1. General Chemistry. Lectures and laboratory work.

Open to all undergraduates. Freshmen four hours a week for a year; all other students three hours a week for a year.

Associate Professor Bragg.

Course 1 is for beginners in Chemistry, and is intended to familiarize the student with the important properties of the elements—especially the non-metallic ones—and their compounds; with their modes of preparation, and with such tests as shall lead up to the study of systematic Qualitative Analysis; also to present the laws governing chemical reactions, the meaning of chemical equations, and the more recent theories adopted in the science.

2. Qualitative Analysis.

Open to students who have completed course 1. Three hours a week for the first semester.

Mr. Goodell.

This course supplements course 1 by presenting the properties and characteristic reactions of the metallic elements. Practical methods of separating and recogniz-

† Withdrawn for the current year.

ing the elements present in simple mixtures are taught, and the progress of the student is constantly tested by the examination of simple substances, the exact composition of which is unknown to the student.

3. Organic Chemistry.

Open to students who have completed course 1. Three hours a week for the second semester.

Professor Roberts.

This course includes a somewhat careful study of the saturated series, dealing very briefly with the unsaturated and benzene series. Experiments are performed in the laboratory to illustrate the behavior of representative substances, and a limited number of preparations are made to familiarize the student with the more common processes of Organic Chemistry.

4. Advanced General Chemistry and Qualitative Analysis.

Open to freshmen who have met the admission requirement in Chemistry. Four hours a week for a year.

Mr. Goodell.

5. Quantitative Analysis.

Open to students who have completed course 2 or 4. Three hours a week for the second semester.

Mr. Goodell.

In this course a few typical processes involving both volumetric and gravimetric methods are taught to illustrate the general principles of Quantitative Analysis.

6. Air, Water, and Food Analysis.

Open to students who have completed course 1, 2 or 4, 3 or 7, and 5. Three hours a week for the first semester.

Associate Professor Bragg.

7. Organic Chemistry, with laboratory work in organic preparations.

Open to students who have completed courses 1, 2 and 5, or 4. Three hours a week for a year.

Professor Roberts.

8. Theoretical Chemistry.

Open to students who have completed course 3 or 7. Three hours a week for the second semester.

Professor Roberts.

†9. Selected Subjects in Theoretical and Physical Chemistry, with laboratory work in the determination of vapor densities and molecular weights.

Open to seniors and graduates who have completed course 8. Three hours a week for a semester.

Professor Roberts.

10. Special Work in Organic Preparations, Problems of Food Analysis, or Advanced Analytical Chemistry—to be arranged on consultation with the department. Laboratory course principally.

Open to seniors and graduates. Three hours a week for a semester.

Professor Roberts, Associate Professor Bragg, or Mr. Goodell.

Courses 9 and 10 will not ordinarily be given the same year.

XV. Physics

1. General Physics.

Open to all undergraduates. Freshmen four hours, others three hours a week for a year.

Miss Davis, Miss Langford, Miss Ellis.

This course is intended for students who are beginning Physics. It consists of lectures amply illustrated, followed by laboratory work. The object is to outline the elemen-

†Withdrawn for the current year.

tary principles of Mechanics, Sound, Electricity, and Light, to train the powers of observation, and to teach proper methods of recording observations, and reasoning upon them.

3. Heat, Light, and Electricity.

Open to students who have completed course 1 or an equivalent. Freshmen four hours, all other students three hours a week for a year.

Miss Langford.

This course presupposes an acquaintance with the general principles of Physics, and aims to be more intensive in its work. Only the best instruments of precision are used, and training is given in the handling of apparatus and in the discussion of results.

Special attention is given to the needs of those preparing to teach, and opportunity is given for student lectures with illustrative experiments.

†4. Selected subjects in Light and Electricity, mathematically treated.

Open to seniors who have completed course 3 and also course 3 in Pure Mathematics. Three hours a week for a year.

Miss Langford.

Text-books: First Semester, Preston's *Theory of Light;* Second Semester, J. J. Thomson's *Mathematical Theory of Light and Electricity*, with reference reading.

It is possible to combine one semester of this course with either 5 or 8.

5. Advanced Optics.

Open to students who have completed course 3. Three hours a week for a semester.

Professor Whiting.

Polarized light, measurement of wave lengths with plane grating, mapping spectra with Filar micrometer, photo-

† Withdrawn for the current year.

graphing spectra with concavegrating spectroscope through color screens, measurement of photographs with measuring machine, work with interferometer.

8. Advanced Electricity.

Open to students who have completed course 3. Three hours a week for a semester.

Professor Whiting.

Precise measurements of electrical units, Hertzian waves, discharge through gases, Roentgen ray photography, radioactivity, modern theories.

The aim of courses 5 and 8 is to present modern theories, with evidence for them gathered from individual work and consultation of original memoirs, and to develop the power of independent thought and experiment.

†6. Meteorology.

Open to students who have had an elementary course in Physics in college or in preparatory school. One hour a week for a year.

Miss Davis.

Text-books: Davis's *Meteorology*, Ward's *Practical Exercises*. Making of weather maps; study of clouds, cold waves, progress of storms, weather prediction.

Astronomy

1. Physical Astronomy.

Open to sophomores, juniors, and seniors who have had an elementary course in Physics. Three hours a week for a year.

Professor Whiting, Miss Ellis.

A general survey of our present knowledge of the universe, and of the methods by which this knowledge has been obtained.

Special emphasis upon astrophysics. One third of the course consists of observation of the heavens with and without instruments, work with the spectroscope, with the ephemeris, charts, photographs.

† Withdrawn for the current year.

2. Practical Astronomy.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Professor Hayes.

A general survey of Astronomy, with practice in the use of instruments for the determination of the position of a heavenly body; time, latitude.

3. Advanced Astronomy.

Open to students who have taken course 2 and also course 1 in Applied Mathematics or course 3 in Pure Mathematics. Three hours a week for one semester.

Professor Hayes.

Text-books: Campbell's *Practical Astronomy;* Chauvenet's *Method of Least Squares.*

4. Theory of Orbits.

Open to students who have completed course 3. Three hours a week for the second semester.

Professor Hayes.

A continuation of course 3. The development of the theory of the parabolic orbit, concluding with the determination of one such orbit.

Courses 3 and 4 are accompanied by observatory work with the transit, clocks, chronograph, equatorial, conducted by Professor Whiting and Professor Hayes.

†5. Advanced Observatory Work.

Primarily for graduate students who have had at least one year of Astronomy. Three hours a week for a year.

Professor Whiting.

Among subjects which receive different emphasis according to need, are photometric work, variable stars, study of the solar surface, use of micrometer.

†Withdrawn for the current year.

XVI. Geology and Mineralogy

1. Geology.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Professor Niles, Miss Fisher.

Lectures, recitations, and field work. Subjects treated: Dynamical, Structural, and Historical Geology.

A systematic and comprehensive study of the more important teachings of geological science.

2. Mineralogy.

Open to sophomores, juniors, and seniors. Three hours a week for the first semester.

Miss Fisher.

Lectures and recitations. Laboratory study of sets of specimens of the more important mineral species. Blowpipe analysis. Crystallography. A reference collection is always available for students' use.

3. Advanced Geography.

Open to students who have completed one year of Science. Three hours a week for the second semester.

Miss Fisher.

Lectures and recitations. This course comprises a comparative study of the geographic features of the continents with their natural and political divisions. It also discusses the influence which these features have upon the life, habits, prosperity, and commercial relations of peoples and nations.

4. Structural Geology and Field Work.

Open to students who have completed course 1. Three hours a week for a year.

Miss Fisher.

Lectures, discussions, and field study. The aim of the course is to give a thorough knowledge of Structural Geology, with practice in applying the principles to the interpretations of the geology of selected localities.

XVII. Botany

1. General Botany.

Open to all undergraduates. Freshmen four hours, all other students three hours a week for a year.

Associate Professor Ferguson,
Miss Torrence, Miss Bliss, Miss Ottley.

This course includes a general study of morphology, anatomy, classification, and ecology, with demonstration of the simpler laws of physiology. The interrelationship of the groups from the lowest Algæ and Fungi to the highest Phanerogams will be shown. Plants are studied as individuals and as members of plant societies. A plot of ground twenty feet square will be assigned to each student. The plants growing on these plots will be observed throughout the year, and at stated intervals reports based on an ecological, a structural, and a systematic study of the plants will be made, special emphasis being laid on the relation of structure to environment. Recitations, lectures, and demonstrations will be accompanied by parallel studies in the laboratory and field. This course is introductory to all other courses in Botany.

2. Cryptogamic Botany.

Open to students who have completed course 1. Three hours a week for a year.

Associate Professor Ferguson, Miss Torrence.

A study of the morphology, reproduction, and development of the lower forms of plant life.

In the autumn special attention is given to the study of mushrooms, both in field and laboratory, with reference to poisonous and edible forms. In the spring term the work is largely individual. It is intended that this course shall supplement Botany 1 in giving a general survey of the plant kingdom.

*3. Systematic and Economic Botany.

Open to students who have completed course 1, and to other students upon advice of the professor. Three hours a week for a year.

Professor Cummings.

This course includes a consideration of the special morphology, classification, and distribution of flowering plants. The fundamental principles of plant geography are studied in connection with the orders of plants. An important part of the course deals with the economic value of plant products. This work is conducted in the laboratory, field, and greenhouse.

7. Plant Cytology and Embryology.

Open to students who have completed courses 2 and 13, but in special cases may be taken by seniors and graduate students as a parallel study with course 13. Three hours a week for a year.

Associate Professor Ferguson.

This course is designed to give familiarity with methods of research in plant morphology and cytology, and a thesis embodying the results of an original investigation will be required. Each student will be assigned a special problem in embryology, in experimental morphology, or in reference to the nuclear and cell phenomena attending sporogenesis, spermatogenesis, oogenesis and fertilization. This is primarily a laboratory course, but a definite appointment will be made with each student for one conference a week, at which conference the student will give a report of the papers read, and of the progress of her investigation.

†8. Advanced Cryptogamic Botany. Systematic study of any chosen group or groups of Cryptogams.

Open to students who have completed course 2. Three hours a week for a year.

Professor Cummings.

*Not offered in 1904–1905.
†Withdrawn for the current year.

*9. Trees and Forestry.

Open to students who have completed course 1. Three hours a week for a year.

The subjects studied in this course are forest botany and silviculture; the forests of the world, their value and the uses of their products; protection of woodlands and forest regulations. The work is conducted largely out of doors.

*11. Plant Physiology.

Open to students who have taken course 10. Three hours a week for the second semester.

Associate Professor Ferguson.

The lectures of this course take up in detail the more important problems of plant physiology, including nutrition, the effects of stimuli upon cell activities, growth, irritability, development, and reproduction. The laboratory study consists of experimental work in plant physiology. A knowledge of the elements of Physics and Chemistry is very desirable for this course.

12. General Horticulture and Elementary Landscape Gardening.

Open to students who have completed course 1. Three hours a week for a year.

Mr. Adams.

Lectures on the preparation of soils, propagation and cultivation of plants, including planting and pruning. A study of gardens, old and new, planting designs and school gardens, including a brief consideration of the plants used in practical planting.

The lectures will be supplemented by reading, work in the greenhouse, practice in making planting plans, practical work in field, and visits to gardens, nurseries, and estates in the vicinity.

* Not offered in 1904–1905.

13. Comparative Morphology, Embryology, and Histology.

Open to juniors and seniors who have completed course 1. Three hours a week for a year. Course 2 advised but not required as a prerequisite.

Associate Professor Ferguson.

A comparative study of representative members of the great groups, phyla, of plants with special reference to the evolution of the higher forms. Preliminary studies of the structure, development, and contents of the vegetable cell. Nuclear and cell division with special reference to the development of the gametophytes, fertilization, and tissue formation. The structure and development of primary tissues. Secondary thickening and a comparison of vascular tissues. A number of permanent microscopic preparations will be made by each student as a means of becoming acquainted with the most approved methods in cytological and histological technique.

XVIII. Zoology and Physiology

1. General Biology.

Open to freshmen and sophomores. Freshmen four hours, all other students three hours a week for a year.

Associate Professor Hubbard, Miss Alice W. Wilcox, Miss Robinson.

The main object of this course is to train students in accurate methods of observation and thought, and to illustrate fundamental principles of life. The course includes laboratory work, field work, and lectures. In the fall some of the common orders of insects are studied, with special reference to their life-histories, habits, and economic importance. A thorough study is made of the frog as a typical animal, and of the fern as a typical plant. The fundamental unity of the animal and vegetable kingdoms is shown by a comparison of the anatomy, physiology, and development of the frog and the fern, and by a study of unicellular animals and plants. The principle of evolution is illustrated throughout the course. During the second semester one appointment weekly is given to the study of birds.

2. General Zoology.

Open to sophomores, juniors, and seniors. Three hours a week for a year.

Professor Willcox, Miss Holt.

Comparative study of all the great groups (phyla) of animals, beginning with unicellular organisms and concluding with mammals. Also a few lectures on vertebrate embryology.

This course aims to present the outlines of animal structure and classification, and to give familiarity with the commoner forms.

Courses 1 and 2 together will meet the admission requirement in biology of the Johns Hopkins Medical School.

3. Anatomy of the Cat.

Open to students who have completed course 1 or course 2. Three hours a week for the first semester.

Associate Professor Hubbard.

This course is intended to train students in careful dissection. It is especially fitted for those who intend to study medicine. Constant reference will be made to human anatomy, and a lightening of the ordinary course in that subject in a medical school can be effected by taking this work.

4. Embryology of the Chick.

Open to students who have taken or are taking course 2. Three hours a week for the second semester.

Associate Professor Hubbard.

This course, by a thorough study of the development of the chick, introduces the student to the general principles of embryology. Training is given in the mounting of embryos and in the preparation of serial sections.

‡5. Natural History of Animals.

Open to students who have completed or are taking course 2. Three hours a week for a year.

Professor Willcox.

‡ Courses 5 and 6 are alternate courses; course 9 is offered in alternate years.

Collection and classification of animals; study of habits; readings in natural history; excursions to neighboring museums; microscopic mounts of minute animals and of parts which are of taxonomic importance.

‡*6. Zoological Seminary.

Open under the advice of the professor to students who have completed two full courses. Three hours a week for a year.

Professor Willcox.

Readings and discussions of Darwin, Spencer, Wallace, Weismann, and kindred authors. One careful paper on a biological subject prepared by each student.

‡*9. Animal Histology and Histological Technique.

Open to students who have completed course 1 or course 2. Three hours a week for a year.

A study of the microscopical anatomy of the cell, tissues, and organs. Laboratory work includes a training in the methods of making mounted preparations, a certain number of which are required from each student. Lectures are upon the comparative structure and the evolution of the tissues.

*10. Animal Physiology.

Open to students who have completed course 1 or course 2. Three hours a week for a year.

Lectures and laboratory work dealing with experimental and theoretical questions in physiology, such as the structure and action of muscle, nerves, blood vessels, the heart, blood, the formation and action of digestive juices, excretion, metabolism, the special sense organs, the brain, etc. Each student arranges and uses the apparatus necessary for almost all experiments; but some of the more difficult are performed by the instructor, assisted in turn by the different members of the class.

* Not offered in 1904–1905.

‡ Courses 5 and 6 are alternate courses; course 9 is offered in alternate years.

Apparatus needed by students in this department. Microscopes, reagents, etc., are provided by the college. Certain dissecting instruments may be rented from the college; others must be provided by the students.

The instruction in all courses of the Zoology department, except 6, is given through practical work in the laboratory, accompanied by lectures, three appointments per week, one hour and a half each. Course 6 requires no laboratory work, and the appointments are forty-five minutes each.

Hygiene

1. Physiology and Hygiene.

Required of freshmen. One hour a week for a year.

Miss Sherrard.

Lectures, demonstrations, and quizzes.

The subject presented is the proper care of the body, and the course is designed to give a practical knowledge of its structure and an understanding of the laws of life and health. An outline is also given of the general principles of public hygiene.

XIX. Pedagogy

1. Science of Education.

Open to juniors, seniors, and graduates. Three hours a week for a year.

Associate Professor McKeag.

This course attempts to base principles of education upon the data of science. It sketches rapidly the civilizing and educative influence of the arts of primitive peoples. It studies educational processes at various stages of the child's development, and considers educative material suitable at different periods of his life. This course also includes a general study of the child's growth and physique, and it presents school hygiene in detail.

2. History of Education. Educational theories.

Open to juniors, seniors, and graduates. Three hours a week for a year.

Associate Professor McKeag.

This course aims to present a general view of the great movements in education; to trace the development of its institutions, and to select characteristic features of its accepted systems. Emphasis is placed on modern educational theories. The child-study movement is considered. Detailed studies are made of certain practices and problems of the American public schools of the present time.

NOTE.—If but one course is taken, course 1 is recommended to students who are specializing in the departments of science, philosophy, mathematics, or art. Course 2 is designed primarily for students who are specializing in language, literature, or history.

3. Introduction to Experimental Pedagogy.

Open to seniors who have completed the requirement in Philosophy and to graduates. Three hours a week for a year.

Associate Professor McKeag.

A brief survey of the results of experimentation in the field of education. A study of effective method of investigation. Written reports of statistical and experimental inquiries.

†*8. Philosophy and Art of Teaching.

Open, on the approval of the department, to graduates who have completed or are taking course 1 or 2. Two hours a week for a year.

Associate Professor McKeag.

This course attempts to present both the philosophy and the art of instruction. It considers the nature and elements of the teaching process; aims and ideals in schoolroom practices, and the basis of methodology. It examines in some detail the art of study, and briefly considers discipline and incentives.

*9. Methods of Teaching.

Open to students who have completed course 8. Four hours a week for the second semester.

* Not offered in 1904–1905.
† Withdrawn for the current year.

This course considers methods of teaching elementary school subjects, and discusses from a similar point of view the teaching of English and foreign languages, history, science, and mathematics in secondary schools.

XX. Bibliography

*1. Bibliography.

Open to sophomores, juniors, and seniors. One hour a week for a year.

This course aims to familiarize the student with bibliographical works and with library methods and catalogues, to teach the best methods of reaching the literature of a subject, and to furnish bibliographical lists of value in future study. It is designed primarily for students taking courses in English literature, philosophy, history, economics, and the history of art, and for those intending to make library work a profession.

XXI. Elocution

1. Training of the Body and Voice.

Open to sophomores, juniors, and seniors; to freshmen by special permission. Two hours a week for a year.

Miss Bennett, Miss Chamberlain.

Body; poise and bearing. Voice; correct method of breathing, etc. Reading, with special reference to a good use of the voice. Recitations.

*2. Training of the Body and Voice. Expression.

Open to students who have completed course 1, or an equivalent course. Two hours a week for a year.

Miss Bennett.

Voice culture; exercises for freedom of body; gesture; recitations from the best authors; reading at sight.

* Not offered in 1904–1905.

3. Reading of Shakespeare.

Open to students who have completed course 1 and 2, or to those who have completed or are taking English Literature 9; to others at the discretion of the instructor. Two hours a week for a year.

Miss Bennett.

Analysis of characters, reading, scenes selected for memorizing and acting.

4. Public Speaking.

Open to students who are taking or have taken English 15 or to students who are taking or have taken Elocution 1. Two hours a week for a year.

Miss Bennett, Miss Chamberlain.

Voice training, gesture, reading and speaking from standard orations and essays, varied with dramatic work.

XXII. Art

*‡1. History of Architecture. From the earliest times to the year 1000 A. D.

Open to seniors without prerequisite, and to other students who have completed either course 12 or 13. Three hours a week for a year.

Mr. Holt.

The aim of this course is to give a general view of the development of styles and a thorough understanding of their essential elements, both constructive and decorative, during the period studied.

First semester, ancient and classic styles. Second semester, early Christian, Byzantine, and Mohammedan styles, with a summary of Romanesque and Gothic.

2. Outline History of Greek Sculpture.

Open to seniors without prerequisite, and to other students who have completed either course 12 or 13. Three hours a week for a year.

Mr. Hill.

* Not offered in 1904–1905. It is intended to offer the History of Architecture in 1905–1906.

‡ Courses 1 and 9, and 3 and 10, are alternate courses; they will not both be given in the same year.

Text-book: *Handbook of Greek Sculpture*, by Ernest A. Gardner. In this course the great periods will be the main subject of study; and more stress will be laid on the spirit of Greek Art than upon archæological details.

*‡3. History of Italian Painting through the Fifteenth Century.

Open to seniors without prerequisite, and to other students who have completed either course 12 or 13. Three hours a week for a year.

Mr. Rankin.

7. History of Greek Sculpture. Seminary.

Open to graduates and seniors who have completed Art 2 or its equivalent. Three hours a week for a year.

Mr. Hill.

In this course one limited period of Greek sculpture will be carefully studied.

Subject for 1904–1905: The Fifth Century B. C.

The work will be carried on in the Museum of Fine Arts in Boston, with especial study of originals.

All must read in preparation *Handbook of Greek Sculpture*, by Ernest A. Gardner.

8. History of Italian Painting. Seminary.

Open to graduates and seniors who have completed Art 3 or 10, and to others by permission of the instructor. Three hours a week for a year.

Mr. Rankin.

Subject for 1904–1905: Italian Mediæval Painting.

The aim of this course is to study a given epoch in detail, and to train students for independent work. In preparation for this course an acquaintance with the outline of the history of Italian painting is required.

* Not offered in 1904–1905. It is intended to offer the History of Architecture in 1905–1906.

‡ Courses 1 and 9, and 3 and 10, are alternate courses; they will not both be given in the same year.

*‡9. History of Architecture from the year 1000 to the present time.

Open to seniors without prerequisite, and to other students who have completed either course 12 or 13. Three hours a week for a year.

Mr. Holt.

The aim of this course is to give a general view of the development of styles and a thorough understanding of their essential elements, both constructive and decorative, during the period studied.

‡10. History of Italian Painting during the High Renaissance.

Open to seniors without prerequisite, and to other students who have completed either course 12 or 13. Three hours a week for a year.

Mr. Rankin.

In this course critical study will be given to the position and quality of the artists, as well as to the characteristics and relations of the different schools. Critical and artistic study of photographs is required, and an understanding of the methods used by Crowe and Cavalcaselle, Berenson, Morelli, and other critics.

§12. Elementary Course.

Open to freshmen only. Four hours a week for a year. No prerequisites.

Professor Brown, Miss Moore.

Designed for freshmen who enter college with the intention of specializing in Art. This course is a combination of history and practice, and will include an introductory study of the History of Architecture, Sculpture, and Painting, illustrated by sketching from photographs, and by

* Not offered in 1904–1905. It is intended to offer the History of Architecture in 1905–1906.

‡ Courses 1 and 9, and 3 and 10, are alternate courses; they will not both be given in the same year.

§ In 1904–1905 and thereafter Art 12 or Art 13 will be a prerequisite to further election for all students not already in the department except seniors.

practical studio work in drawing, composition, and modeling in clay. It will be conducted by the scientific method of laboratory observation and practice. No other work may be substituted for the laboratory practice.

§13. Introductory Course.

Open to sophomores, juniors, and seniors. Three hours a week for a year. No prerequisites.

Professor Brown.

This course furnishes an outline of the general development of styles in Architecture, Sculpture, and Painting.

Its method of constant laboratory work leads directly into the methods of the more advanced courses in the department.

This course is complete in itself, but it may be taken in preparation for other courses.

This course is not open to students who have taken or are taking any other history course in the Art Department.

5. Studio Practice.

Open to sophomores, juniors, and seniors. No prerequisites. One hour a week for a year.

Professor Brown, Miss Moore.

Drawing and sketching.

14. Studio Practice.

Open by permission of the instructor to students who are taking or have completed Art 5. One hour a week for a year.

Fall Term, Professor Brown.
Winter and Spring Terms, Mr. Woodbury.

Drawing and color work.

§ In 1904–1905 and thereafter Art 12 or Art 13 will be a prerequisite to further election for all students not already in the department except seniors.

15. Studio Practice.

Open by permission of the instructor to students who are taking or have completed Art 14. One hour a week for a year.

Fall Term, Professor Brown.

Winter and Spring Terms, Mr. Woodbury.

Drawing and color work.

16. Studio Practice.

Open by permission of the instructor to juniors and seniors who have completed course 5. Two hours a week for a year.

Fall Term, Professor Brown.

Winter and Spring Terms, Mr. Woodbury.

Painting or drawing from life at the discretion of the instructor.

NOTE.—After one course in the History of Art has been completed, three hours of studio work as indicated in 5, 14, 15, 16, above, equivalent to nine hours of studio practice, may count toward the degree; *four hours of studio work*, equivalent to twelve hours of studio practice, may so count, if *six hours* in the History of Art have been completed.

Students in art courses are required to use laboratory methods, examining and comparing, sketching or describing, the photographs used in illustration.

Previous preparation in drawing is not required.

The art library is open to students from 9 to 5.30 daily, and from 7 to 9 in the evening.

N. B. Any student who desires to give yearly the time of one full course to studio work throughout her college course may do so by spending five years in college before taking her degree, instead of four.

XXIII. Music

I. Musical Theory

Instruction in music is given in Music Hall and in Billings Hall, buildings used exclusively for this purpose. See page 132. The department aims to lay a foundation of musical knowledge that shall lead to a rational appreciation of the art of music and add a cultural element to a general education. The courses in theory and history are open to advanced freshmen (five-year music course), sophomores, juniors, and seniors without restriction as to previous musical knowledge, and count toward the B.A. degree. They are open to all special students. The history and theory courses are subject to no separate tuition fee with the exception of courses 9, 10, 11, 12, where a nominal fee of five dollars is charged for tuning and repairs of instruments. The following sequences of courses are recommended: 8, 1; 8, 1, 9; 8, 4; 8, 4, 10; 8, 1, 6–7; 8, 1, 6–7, 11–12; 8, 1, 4; 8, 1, 4, 10; 8, 1, 9, 4, 10; 8, 14; 8, 1, 14. A limited number of tickets for reserved seats at the Boston Symphony concerts will be given to students who are able to use them profitably.

8. Foundation Principles.

Open to advanced freshmen (five-year music course), sophomores, juniors, and seniors. Three hours a week for a year.

Professor Macdougall.

This course covers the ground necessary for admission to courses 1 or 4, and also offers a substantial foundation for subsequent work in practical or theoretical music. It includes the study of elementary acoustics in its relation to music; the Greek modes; the intervals; the modern scales; the formation and connection of the fundamental triads; the elements of rhythm and melody. Much attention will be devoted to ear training, and one hour of the course every week will be devoted to the realization of the principles of the course in choral practice. Students electing this course should be able to "carry a tune"; the quality of voice does not matter; if in doubt as to qualifications the student should consult the head of the department.

1. Harmony.

Open to students who have completed course 8. Three hours a week for a year.

Associate Professor Hamilton.

This course covers the formation and interconnection of chords; modulation; non-harmonic tones; analysis of harmony in standard works; invention of melodies and the expansion of the harmonic accompaniment. The course aims to give facility in elementary composition.

9. Applied Harmony.

Open to those students only who are at the same time taking course 1. Two hours a week for a year. A laboratory fee of five dollars is attached to this course.

Associate Professor Hamilton.

This course aims to realize synthetically at the pianoforte the principles taught in course 1, following what may be termed a laboratory method.

Note.—Instruction will be given in classes of not less than three nor more than four. The course is in no sense a substitute for pianoforte lessons. Students must satisfy the head of the department that they have a pianoforte technique adequate for the work; in general, the ability to play the easier Mendelssohn Songs without Words and to read hymn tunes accurately at sight will be sufficient.

4. The Development of the Art of Music.

Open to students who have completed course 8. Three hours a week for a year.

Professor Macdougall.

A course in the appreciation of music designed to develop musical perception and the ability to listen intelligently to the best music. It includes the evolution of rhythm, harmony, and melody, and their powers and offices in musical expression; the principal musical forms analytically considered; studies of the principal composers, their lives, their strongest works, their relation to the progress of musical art. Some great work will be selected for study during the year.

10. Applied History.

Open to those students only who are at the same time taking course 4. Two hours a week for a year. A laboratory fee of five dollars is attached to this course.

Professor Macdougall.

This course aims to realize synthetically at the pianoforte the development of music from the organum of Hucbald to the Wagner opera. Specimens of the music of various schools and periods will be collected, played, and analyzed. See note to course 9.

6. Counterpoint.

Open to students who have completed course 1. Three hours a week for the first semester.

Professor Macdougall.

Counterpoint in two, three, and four voices; double counterpoint; analysis; the distinctions between strict (modal) and free counterpoint; the rules for the latter deduced from contemporaneous practice.

11. Applied Counterpoint.

Open to those students only who are at the same time taking course 6. Two hours a week for the first semester. To this course a laboratory fee of two dollars and a half is attached.

Professor Macdougall.

This course aims to realize synthetically at the pianoforte the laws of simple and double counterpoint by the constant playing and analysis of the best examples from the masters. See note to course 9.

7. Musical Form.

Open to students who have completed course 6. Three hours a week for the second semester.

Professor Macdougall.

This course aims to cover the various imitative forms, the suite and sonata forms, the large forms of vocal and orchestral music. A study of the simple musical sentence and its development into the larger forms will be made.

12. Applied Form.

Open to those students only who are at the same time taking course 7. Two hours a week for the second semester. To this course a laboratory fee of two dollars and a half is attached.

Professor Macdougall.

This course aims to play and to analyze a great number of specimens of the various forms, with careful analysis and classification. See note to course 9.

14. History of Music.

Open to sophomores, juniors, and seniors. Three hours a week, counting as two.

Associate Professor Hamilton.

A non-technical course in the history of the music of all nations, for which no previous knowledge of music is required. One appointment each week will be devoted to illustrative programs.

II. Practical Music (Instrumental and Vocal Lessons)

It is believed that students having command of a pianoforte or organ technique will be able to profit by the theoretical instruction given in the department to a fuller degree than those without such a technique. To encourage students to acquire a technique, as well as to furnish authoritative instruction, the department undertakes to give lessons in pianoforte, organ and violin playing, and in singing. Practical work, with the exception of the applied music courses 9, 10, 11, and 12, does not count toward the B.A. degree. It is offered to all students, whether candidates for degrees or not, as stated below:—

(*a*) *Candidates for the B.A. degree who propose to spend but four years in college may take practical music*, provided that they obtain each year the permission of the Dean of the College as well as of the Professor of Music. Freshmen may do so without taking Musical Theory, but sophomores, juniors, and seniors must take it unless they have previously completed two full courses in the subject.

(*Continued on next page.*)

(*b*) Candidates for the B.A. degree *who are willing to devote five years to the college course* will be permitted to take practical music each year of the course. Freshmen may do so without taking Musical Theory, but all other students in the academic and musical course are governed by the restriction laid down in (*a*).

(*c*) Candidates for the B.A. degree who wish also the *Certificate of the Department of Music* should plan to devote *five years to the college course*. Such students are required to take practical music, two lessons a week, throughout the five years. They must complete, satisfactorily to the department, a course in the literature of the instrument chosen or of the voice; they must apply for the certificate at least three years in advance. After the first year the study of Musical Theory is required.

(*d*) Students not candidates for the B.A. degree *who desire to specialize in Music* must meet the requirements prescribed for admission to the freshman class, and must in addition pass an examination on the rudiments of music. This examination will be based upon W. H. Cummings' *Rudiments of Music* (No. 2 of Novello Company's Music Primers), chapters 6, 9, and 10 omitted. Special students must take both Musical Theory and vocal or instrumental lessons, two a week, with not less than twelve hours of weekly practice. They must also take from six to nine hours per week of academic work, including Musical Theory, as may be decided in consultation with the Dean.

(*e*) Students not candidates for the B.A. degree who wish the *Certificate of the Department of Music* must comply with the conditions laid down in (*d*); moreover, the academic work taken must include modern languages. Such students must apply for the certificate on entering the department, and must have already acquired the fundamental technique of the instrument chosen or of the voice. The time occupied in study for the certificate depends upon the talent, upon the proficiency of the student at entrance, and upon her subse-

quent diligence; but in general four years at least are necessary. The various courses are so arranged that the pupil on completion will have an acquaintance with the best musical literature.

(*f*) Graduates of Wellesley College or of other institutions may make special arrangement for instrumental or vocal lessons.

Tuition

For instruction for the college year in Pianoforte, Organ, or Violin, two lessons a week	$100 00
One lesson a week *	50 00
(Lessons forty-five minutes in length.)	
Two half-hour lessons a week	75 00
For instruction for the college year in Vocal Music, two lessons a week	100 00
(Lessons thirty minutes in length.)	
For use of the Pianoforte, sixty minutes daily, for the college year	10 00
For two and three hours daily, in proportion.	
For use of the Pipe Organ in Music Hall, sixty minutes daily, for the college year	15 00
For two or three hours daily, in proportion.	

Special arrangements may be made for lessons on instruments not mentioned above.

Tuition in music must always be paid in advance and is not subject to return or deduction.

All students are subject to the charges for academic tuition stated on page 119.

College Examinations

An examination period occurs at the end of each semester. At these periods, and also during the days of the admission examinations in September, examinations for the removal of conditions and deficiencies and for advanced standing may be taken.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year, must

* Two lessons a week insure much more rapid progress, while, in comparison with one weekly lesson, they do not involve any material increase in the time spent in preparation.

apply to the Dean for the requisite card of admission to the examination. The last day for receiving applications for such cards is *for the September examinations, September first; for the mid-year examinations, January fifteenth; for the June examinations, June first.*

N. B. Examinations for the removal of conditions and deficiencies excepted, no student can be admitted to examination upon a course which is not a part of her approved schedule for the year without permission both from the head of the department concerned and the Dean of the College. *No student, therefore, should enter upon preparation for such an examination until her plan has been approved by both of the above named officers.*

☞The College reserves the right to require the withdrawal of students whose scholarship is not satisfactory.

Degrees

The following degrees are conferred by the Trustees upon recommendation of the Academic Council:—

Bachelor of Arts.
Master of Arts.

Requirements for the B.A. Degree

Every candidate for the B.A. degree must complete before graduation the equivalent of fifty-seven one-hour courses.* Since 1896, two grades in work which reaches the passing mark have been distinguished: one, "*Passed;*" the other, "*Passed with credit.*" In order to be recommended for the degree of Bachelor of Arts, a student must have "passed with credit" in at least thirty-three hours, of which nine hours have been accomplished in the senior year. First-year French and first-year German may not *both* be counted among the fifty-seven hours. *Neither* first-year French nor first-year German may be so counted if taken after the sophomore year, and neither

* A one-hour course is a course given once a week for one year. A full course is a course given either three or four times a week for one year.

second-year French nor second-year German if taken after the junior year. Of the fifty-seven hours required for the B.A. degree, a certain number is prescribed, the rest elective.

I. Prescribed. Courses in the following subjects are required as specified :—

Mathematics, one full course † ; Philosophy, one full course ; Physiology and Hygiene, one one-hour course * ; Biblical History, the equivalent of four one-hour courses ; English, the equivalent of four one-hour courses ; Language, one full course ; Natural Sciences, two full courses. The science courses must be in different departments. If a student offers science for admission, only one full course of natural science is required in college.

Of the required subjects, Mathematics must be taken in the freshman year; Physiology and Hygiene in the freshman year; Biblical History two hours per week in the sophomore and the junior years; English two hours per week in the freshman and the sophomore years. Of the natural sciences, one must be taken before the junior year, the other may be elected at any time during the course; language may be taken in any year, but either a language or a science must be taken in the freshman year. Philosophy should ordinarily be taken before the senior year.

II. Elective. All of the fifty-seven hours not indicated in the above are elective, subject only to the restriction that the equivalent of eighteen one-hour courses must be taken in one of the following ways :—

(*a*) Nine in each of two subjects, related or unrelated.

(*b*) Nine in one subject, with nine divided between two tributary subjects.

(*c*) Twelve in one subject, with six in a tributary subject.

(*d*) Twelve in one subject, with six divided between two tributary subjects.

* A one-hour course is a course given once a week for one year.

† A full course is a course given either three or four times a week for one year.

N. B. In meeting this requirement not less than one full course may be offered in any subject.

In general, prescribed subjects may be counted in making up these eighteen hours; but course 1 in French, course 1 in German, and course 13 in Greek may not be so counted.

Except by special permission, a student may not take fewer than ten or more than fifteen hours per week in any one year.

Requirements for the M.A. Degree

Candidates for the degree of Master of Arts must be graduates of Wellesley College, or of some institution of satisfactory standing, and must give evidence of ability to carry on the work for the Master's degree.

The amount of work required of candidates for the Master's degree consists of the equivalent of from nine to twelve one-hour courses chosen from the courses described in the Circular of Graduate Instruction, and in addition either a thesis or a report or reports on one or more pieces of independent work. The student should choose one major subject, and not more than one minor subject, which should be related to the major; or she may, if she prefers, do all her work in one subject. Beginning with June, 1907, a candidate for the Master's degree will be required to show such a reading knowledge of French and of German as is satisfactory to the department in which the major subject is taken.

One year is the shortest time in which a candidate can complete the work required, but it must be understood that only students of ability and maturity will be able to finish it in so short a time.

The work for the degree of Master of Arts will be tested by either examination or thesis, or both. Rules regarding examinations of resident students are fully stated in the graduate circular. Non-resident students will be examined in Wellesley during some one of the regular examination periods of the year in which the degree is to be conferred.

Thirty scholarships, as described on page 125, are open to accepted candidates for the Master's degree not residing in

college buildings. Candidates residing in the college buildings will pay the full charge for board and tuition. Upon receiving the Master's degree a fee of twenty-five dollars will be required of each candidate.

Graduate students who have done the entire work for the Master's degree in non-residence are accepted as candidates for this degree only when this work has been done at some institution which does not grant the Master's degree to women, but they may under certain conditions do a portion of the work at any approved institution, including those which grant the Master's degree to women, provided that the remainder is done at Wellesley. Preparation for the degree by private study is not permitted. The diploma fee is the same for resident and for non-resident students.

Circulars containing fuller information concerning graduate work will be forwarded on application to the *Dean of the College*. It is important that applications for admission as graduate students be received by June 1st of the year in which the student wishes to enter.

Expenses

Tuition

The charge for tuition to all students, whether living in college buildings or not, is $175 a year. Tuition is payable in advance and *is not subject to return or deduction.*

Students who are permitted to take *seven hours or less* of classroom work a week, and *who do not live in college buildings*, pay tuition by the course as follows: for a one-hour course, $20; a two-hour course, $40; a three-hour course, $60. Payment is due at the beginning of the year. No charge is made for tuition in Biblical History.

For tuition and other charges in the Department of Music see page 115.

Board

The charge for board to students living in the dormitories belonging to the College is as follows: (a) to students *who*

are in attendance during 1904–1905 and who entered previous to September, 1904, $225 a year; (b) to all students *entering in September, 1904, or thereafter, $275* a year.

☞It will be seen from the above statements that the total annual charge (for both board *and tuition)* is to students *in the first case* (a), $400; to students *in the second case* (b), $450.

Fixed Times and Amounts of Payments

1. For students who are lodged in college buildings.

(*a*) Students who are lodged in college buildings and who are charged for board *at the rate of $225 a year* (see preceding paragraph, headed "Board") make payments as follows: —

September (at the opening of college) . . .	$250
February (at the beginning of the second semester)	150
Total of these payments for the year (*a*) .	$400

(*b*) Students who are lodged in college buildings and who are charged for board *at the rate of $275 a year* (see preceding paragraph headed "Board") make payments as follows:—

September (at the opening of college) . . .	$250
February (at the beginning of the second semester)	200
Total of these payments for the year (*b*) .	$450

The charge for board begins at the opening of dormitories, *i. e.*, twenty-four hours before the close of registration (see page 5), and students are not permitted to occupy rooms in dormitories before that time.

2. For students who are not lodged in college buildings.

Students who are not lodged in college buildings make the whole tuition payment ($175) at the time of the opening in September.

These students find rooms and board in the village of Wellesley. Payment is made to the head of the house at such rates and times as the parties to the contract may agree upon. Information regarding boarding places may be obtained by addressing the Registrar.

☞ *Payments must be made before the student can take her place in the class room. No exception will be made to this rule without a written permission from the Treasurer.*

☞ *Checks or money orders should be made payable to Wellesley College.*

Fees

An application fee of $10 is required from all candidates for admission, and no application is recorded until the fee is received (see page 122). The same fee is required from all students in college who are intending to return for the following year, and from all former students who apply for re-admission. If the student enters college, the amount of the registration fee is deducted from the first tuition bill after entrance. If formal notice of withdrawal is received at the Dean's office before August 15th of the year for which the application is made, the fee will be refunded. In all other cases it is forfeited to the College. A student who postpones entrance until the year following the one for which she first applied may transfer her application fee. But a fee so transferred will not be refunded if the student later decides to withdraw, unless the request for the transfer was received within the specified time. Requests for second transfers are sometimes granted, but a fee transferred a second time will not be refunded under any circumstances.

An additional charge is made for materials and the use of apparatus in the following laboratory courses: $5 for each laboratory course in Botany, Chemistry, Physics, Zoology, or Astronomy; $2.50 for the course in Mineralogy; $5 each for courses 9 and 10 in Musical Theory, $2.50 each for the half courses 11 and 12; $2 each for the studio courses in Art; and $1 each for all other Art courses. Every student should also reckon on the expenditure of $10 to $25 annually for the purchase of books. At the time of taking the degree a diploma fee is charged. This is $5 for the B.A. degree, and $25 for the M.A. degree. At the time of taking a certificate, a certificate fee of $3 is due.

Residence

College Hall, with three dining rooms, accommodates two hundred and fifty-seven persons; Stone Hall, with four dining rooms, one hundred and seven; Pomeroy Hall, seventy-five; Cazenove Hall, seventy-five; Wilder Hall, fifty; Freeman Cottage, forty-nine; Wood, forty-nine; Norumbega, forty-eight; Eliot, thirty; Simpson, twenty-two; Waban, eleven; Fiske, thirty-four. Each building contains single rooms as well as suites for two students. All the rooms are furnished, and supplied with electric lights.

☞*A student vacating a room before the close of the year, or relinquishing a room* reserved for her at the beginning of the year, will be charged for board until the vacancy has been filled by an incoming student. Therefore notice of an intention to withdraw should be given at the earliest possible moment. No deduction is made for absences during the year.

All applications for rooms in college buildings take the date at which the application fee is received. (See page 121.)

Until May 1st, but not after that date, *applications from former students* will take precedence of those of new students in the matter of rooms. A limited number of students can arrange for board at the College during the Christmas and spring vacations.

☞*No student can receive a diploma until a satisfactory settlement of all her college dues has been made.*

Fellowships and Scholarships

A. For Graduates

THE ALICE FREEMAN PALMER FELLOWSHIP, yielding an income of about $1,000, was founded in 1903, by Mrs. David P. Kimball.

The holder of this Fellowship must be a graduate of Wellesley College or some other American college of approved standing, a young woman of good health, not more than twenty-six years of age at the time of appointment, unmarried throughout the whole of her tenure, and as free as possible from other responsibilities. The same person will not be eligible to the Fellowship for more than two years.

The Fellowship may be used for study abroad, for study at any American college or university, or privately for independent research. But several times during the period of tenure evidence must be furnished that the Fellowship is used for purposes of serious study and not for general culture.

Applications for this Fellowship should be received by the President of Wellesley College not later than March 1, 1905. Further details may be obtained from the President.

SCHOLARSHIPS IN SCHOOLS OF CLASSICAL STUDY.—Studentships in the American School of Classical Studies in Athens, and the American School of Classical Studies in Rome, are open to graduates and graduate students of Wellesley College under the regulations stated below.

The object of these schools is to afford opportunity for the study of classical literature, art, and antiquities, to aid in original research in these subjects, and to conduct the exploration and excavation of classical sites.

The American School of Classical Studies in Athens.—The school year extends from October 1st to June 1st. The regulations for admission are as follows: "Bachelors of Arts of co-operating colleges, and all Bachelors of Arts who have studied at one of these colleges as candidates for a higher degree, shall be admitted to membership in the School on presenting to the Committee a certificate from the classical department of the college at which they have last studied, stating that they are competent to pursue an in-

dependent course of study at Athens under the advice of the Director. Members of the School are subject to no charge for tuition."* Further information can be had by application to Professor Chapin, who represents Wellesley College upon the Managing Committee of the School.

The American School of Classical Studies in Rome.—The school year extends from the fifteenth of October to the first of July. The regulations for admission are as follows: "Graduates in arts of American colleges and universities of good standing, and under exceptional circumstances other persons of marked qualifications, may be admitted as students of the School on submitting to the Chairman of the Managing Committee, or to the Director of the School, satisfactory evidence that their previous studies have been of such a character as to fit them to profit by the opportunities that the School offers."* Further information can be had by application to Professor Hawes, who represents Wellesley College upon the Managing Committee of the School.

Scholarships in the Marine Biological Laboratory at Wood's Holl.—Wellesley College is entitled to appoint annually two students who may enjoy all the advantages of this Laboratory without expense for tuition. This Laboratory, which is open during the summer for the study of marine life, affords opportunities both to investigators and to persons needing either instruction or direction.

Students in either Botany or Zoology who desire to undertake original work will receive suitable direction. In addition to these opportunities there are courses of lectures on special topics and on subjects of general biological interest. Applications for appointment should state the character of the work to be done,—*i. e.*, whether botanical or zoological, whether general work, investigation under direction, or independent investigation,—and should be forwarded to Associate Professor Ferguson or Professor Willcox in time to reach Wellesley College before April 1st.

Scholarships at the Zoological Station in Naples.—Wellesley College is a subscriber to the support of the American

*A few Fellowships of $600 each are awarded on competitive examination.

Women's Table at the Zoological Station in Naples, and thus has a voice in the selection of the persons who make use of it. Such persons must be capable of independent investigation in Botany, Zoology, or Physiology. Appointments are made for a longer or shorter period, as seems in each case expedient. Applications for the use of the table may be made through the President of the College.

THIRTY SCHOLARSHIPS TO THE VALUE OF $175 A YEAR have been established for the benefit of approved candidates for the M.A. degree in residence at Wellesley. Applications for these scholarships should be addressed to the Dean of the College, Wellesley College, Wellesley, Mass.

B. For Undergraduates

The income of these scholarships is applied to the aid of meritorious students whose personal means are insufficient for their maintenance in college.

THE WOOD MEMORIAL SCHOLARSHIP of $5,000, founded in 1878, by Caroline A. Wood, in memory of her husband.

THE GROVER SCHOLARSHIP of $5,000, founded in 1878, by William O. Grover.

THE WESTON SCHOLARSHIP of $5,000, founded in 1878, by David M. Weston.

THE NORTHFIELD SEMINARY SCHOLARSHIP, founded in 1878.

THE PAULINE A. DURANT SCHOLARSHIP of $5,000, founded in 1880, by Mr. and Mrs. Durant.

THE SWEATMAN SCHOLARSHIP of $5,000, founded in 1880, by V. C. Sweatman.

THE WALTER BAKER MEMORIAL SCHOLARSHIP, founded in 1880, by Eleanor J. W. Baker; raised to $7,000 by will of Mrs. Baker in 1892.

THE ANNIE M. WOOD SCHOLARSHIP, founded in 1880, by Frank Wood.

Two Frost Scholarships, founded in 1880, by Rufus S. Frost, as follows:—

One of $1,000, the income to be given annually to some member of the graduating class designated by the Faculty.

One of $5,000, the income to be devoted annually to the aid of students.

The Union Church Scholarship of $5,000, founded in 1880, by Mr. and Mrs. A. W. Stetson.

The Florence N. Brown Memorial Scholarship of $5,000, founded in 1880, by Mr. and Mrs. Samuel N. Brown, Jr.

The Augustus R. Clark Memorial Scholarship of $5,000, founded in 1880, by Mr. and Mrs. A. N. Clark.

Four Harriet Fowle Scholarships, founded in 1881, by Henry Fowle Durant, in memory of his mother.

The Durant Memorial Scholarship of $5,000, founded in 1883, by the officers and students of Wellesley College, in honor of Henry F. Durant, the income to be appropriated annually to some student selected by the Faculty.

The Jane Topliff Memorial Scholarship of $6,000, founded in 1883, by Mrs. William S. Houghton, in memory of her mother.

The income of a fund of $25,000, known as the "Stone Educational Fund," founded in 1884, by Valeria G. Stone.

The Jeannie L. White Scholarship of $5,000, founded in 1886, by herself.

The Mr. and Mrs. Solomon F. Smith Memorial Scholarship, founded in 1888, by George Smith, for the tuition of students from the town of Wellesley.

The Margaret McClurg Cowan Fund, of $1,000, founded in 1888, by Rev. and Mrs. P. D. Cowan, in memory of their daughter.

The Emmelar Scholarship of $5,000, founded in 1889, by the class of '91, the income to be appropriated annually to some student selected by the Faculty.

The Sarah J. Houghton Scholarship of $6,000, founded in 1889, by William S. Houghton, in memory of his wife.

The Provision of E. A. Goodnow, in 1885, through which the sum of $250 is annually divided among five deserving students.

The Edith Baker Memorial Scholarship of $7,000, founded by bequest of Eleanor J. W. Baker, in 1892.

The Joseph N. Fiske Memorial Scholarship of $8,000, founded in 1892, by Mrs. J. N. Fiske.

The Abbie A. Coburn Memorial Scholarship of $2,000, founded in 1892.

The Eliza C. Jewett Scholarship of $6,000, founded in 1894; the income to be appropriated to the daughter of a clergyman, or of a home or foreign missionary selected by the Faculty of the College.

The Ada L. Howard Scholarship of $6,000, founded in 1895.

The Helen Day Gould Scholarship, founded in 1896, by Helen Miller Gould, in memory of her mother; raised to $10,000 by Miss Gould in 1901.

The Goodwin Scholarship of $5,000, founded in 1897, by Hannah B. Goodwin.

The Hyde Scholarship of $2,000, founded in 1898, by Sarah B. Hyde.

The Bill Scholarship of $7,000, founded in 1898, by Charles Bill.

The Holbrook Scholarship of $3,000, founded in 1898, by Sarah J. Holbrook.

The (second) Helen Day Gould Scholarship, founded in 1899, by Helen Miller Gould; raised to $10,000 by Miss Gould in 1901.

The Mary Elizabeth Gere Scholarship of $5,000, founded in 1899, by Mary Elizabeth Gere.

The Ann Morton Towle Memorial Scholarship Fund of $5,000, established in 1901, by bequest of George Francis Towle.

The Dana Scholarship of $5,000, founded in 1901, through the gift of Charles B. Dana.

The (third) Helen Day Gould Scholarship of $10,000, founded in 1901, by Helen Miller Gould.

The George William Towle Memorial Scholarship Fund, founded in 1901, by bequest of George Francis Towle.

The Anna Palen Scholarship of $10,000, founded in 1902.

The Rollins Scholarship of $8,000, founded in 1903, by Augusta and Hannah H. Rollins, in memory of their parents.

The Memorial Scholarship of $1,000, founded in 1904, by the class of 1889, in memory of classmates who have died.

The Elizabeth S. Fiske Scholarship of $5,000, founded in 1904, by bequest of Miss Fiske.

Another source of pecuniary aid is in the work of the Students' Aid Society. Small amounts are loaned to students without interest in the expectation that whenever they are able, these students will repay the Society. Assistance is often given partly in gifts and partly in loans. The funds at the disposal of the Society are wholly insufficient to meet the wants of applicants. Contributions of any amount will be gladly received, and should be sent to the Treasurer of the Society, Mrs. Pauline A. Durant, Wellesley, Mass.

All applications for assistance should be made by letter, addressed to the Secretary of the Students' Aid Society, Wellesley, Mass., before the first of May preceding the college year for which the aid is needed.

In two cottages a reduction of $100 is allowed on payment for board under certain conditions.

Health

The health of students is under the charge of the resident Health Officer and the College Physician. These two officers, with the Director of Physical Training, the Director of Halls of Residence, and the President and the Dean of the College, constitute the Board of Health, to which all matters affecting the health of students are referred. Two hospital wards, with the constant attendance of two trained nurses, are maintained in College Hall. There is also an emergency ward in an isolated building. No charge is made for the ordinary services of the Health Officer, College Physician, or resident nurse.

A course in Physiology and Hygiene, one appointment per week for a year, is required of freshmen.

Physical Training

The Gymnasium is equipped with apparatus for Swedish gymnastics. The lake, running track, playground, hockey field, tennis and basket ball courts furnish opportunity for organized sports under the supervision and instruction of the Director of Physical Training. The boathouse gives shelter to barges for the class crews and to many private boats. A swimming pool has been formed by enclosing with floats a portion of Lake Waban. Adjoining the swimming pool and boathouse is a small bath house furnished with shower baths.

Three hours per week of physical training are required of freshmen and sophomores. Each student on entrance receives a thorough physical examination which includes measurements and strength tests. This examination is repeated at stated intervals during the college course.

The requirement in physical training is met in the spring and fall terms by walking and outdoor sports; in the winter term by gymnastics and dancing, supplemented by walking and skating. The form and amount of exercise are prescribed or advised, on the basis of physical examination, to meet the need of the individual; therefore no student is excused from the requirement.

A limited number of upper-class students is accommodated in the Gymnasium.

Instruction in swimming and riding can be obtained in schools near Wellesley.

Library

The Library of the College, endowed by Eben Norton Horsford, now numbers 56,328 volumes, including the Departmental and Special Libraries enumerated below. The General Library is open on week days from 8 A. M. to 9.30 P. M, and on Sundays from 9 to 11 A. M. and from 2 to 6 P. M. Students have direct access to the shelves. The library is catalogued by author and subject entries, and the most recent and useful bibliographical aids are provided; special effort is made by the librarians to train students in methods of research.

The Library subscribes for five daily and eight weekly papers and for one hundred and fifty-seven American and foreign periodicals. The list includes the most important representatives of the branches of instruction comprised in the college curriculum.

The Gertrude Memorial Library, established by Mr. A. A. Sweet, the Missionary Library, and other collections in the General Library, furnish 4,694 volumes for Biblical study and religious reading.

The Library of American Linguistics, a special gift from Mr. Horsford, numbering 1,420 works, comprises the valuable collections of Major J. W. Powell and Mr. Horsford relating to North American Indian languages.

The Plimpton Library, established by Mr. George A. Plimpton in memory of his wife, Frances Pearsons Plimpton of the class of 1884, comprises 690 volumes of early Italian literature, including both manuscripts and printed books of the fifteenth century.

The Music Library, in Billings Hall, includes a collection of manuscripts and musical scores, besides books on music.

The following collections are placed in the laboratories of the respective departments :—

Art Library, 1,788 volumes.
Library of Botany, 2,017 volumes.
Library of Physics and Astronomy, 2,523 volumes.
Library of Zoology and Physiology, 1,988 volumes.
Library of Chemistry, 1,223 volumes.

The Farnsworth Art Building and Art Collections

The Farnsworth Art Building, the gift of the late Isaac D. Farnsworth, was opened in September, 1889. Besides a lecture room, galleries for collections, and studios for those engaged in drawing and painting, a special feature is the arrangement of laboratories and libraries, so that the books and art material relating to particular subjects and periods can be made immediately available to general students.

The Art Collection consists of a large number of photographs and other material, including among others, original pieces of antique sculpture from the Day Kimball fund; the James Jackson Jarves collection of laces and vestments; a collection of Indian baskets, the gift of Mrs. Rufus S. Frost, and the Stetson collection of modern paintings.

Over five thousand photographs have been added to the art collections during the past six years.

Equipment in Music

Music Hall and Billings Hall are large brick buildings devoted entirely to the department of Music. Music Hall has an adequate equipment of instruments for students' use, a room for choral practice, and thirty-eight practice rooms of good size. Organ instruction is given not only on the older type of organ, but also on two large, three-manual electric organs embodying the latest principles of organ construction. Constant reference will be made to the use of the organ in church.

Billings Hall, built in 1904, contains the offices of the department of Music, the library and class rooms for instruc-

tion in Musical Theory; also a concert room seating four hundred and twenty-five people, and containing the Grover organ, a large three-manual organ, rebuilt and modernized.

Laboratories and Scientific Collections

Botany

For the use of students in morphological, histological, and physiological work there are four laboratories, each of which is thoroughly equipped for its special purpose. The laboratory for advanced work has also the necessary physical and chemical apparatus, and such other appliances as are requisite to enable students to carry on independent research.

The collections illustrative of botany include the herbarium, containing upward of eight thousand phanerogams and about seven thousand and five hundred cryptogams; a generic collection mounted under glass; a collection of woods, fruits, and economic vegetable products, and a set of drugs fully illustrating the pharmacopœia; two hundred charts by Henslow, Kny, Dodel, Tschirch, and others; a collection of Auzoux's botanical models, illustrating the structure of both flowering and flowerless plants; Brendel's glass models of cryptogams; a collection of lantern slides.

In addition to the working collections a permanent museum is being arranged, which now numbers more than five thousand specimens.

Chemistry

The department of Chemistry occupies a separate building, which contains two lecture rooms and the chemical library in addition to the rooms fitted up for laboratory work. Separate rooms are provided for work in General and Organic Chemistry, Qualitative and Quantitative Analysis, Air and Water Analysis, and Food Analysis. The building is conveniently arranged and well equipped with necessary apparatus and appliances.

Geology and Mineralogy

The mineralogical specimens are arranged in three collections. One collection is exhibited in glass cases, and illustrates the variety and finer qualities of mineral specimens; also by its arrangement with labels for the groups into which it is divided, it shows the classifications of minerals, and, to some extent, their association.

Another collection is used for reference. It contains well-characterized specimens of the more common species. The specimens are labeled and arranged in drawers, and the collection is always accessible to students taking Mineralogy.

There is a third collection, which is used for teaching purposes. It comprises smaller but well-selected specimens, which are systematically arranged in small wooden trays with numbers, but without labels. During an exercise each student has one of these trays, which presents objectively the subject of the lesson.

The room containing these collections is supplied with tables equipped with appliances for testing specimens and laboratory work.

The geological collection of specimens used in teaching the kinds of rock, rock structures, the fossil evidences of life and their succession in past times, is so arranged in cases and labeled that it permanently illustrates these topics.

Mathematics

The collection of mathematical models consists of a set of models of simple solids, surfaces of the second and higher orders, and circular sections of surfaces of the second order. They are executed in wood, thread, card, and plaster.

Physics

The department of Physics occupies a convenient lecture room, provided with arrangements for sunlight and lantern projection and adequate apparatus for illustrative experiments.

Laboratories for students are equipped with instruments adapted to a wide range of work. Rooms are especially fitted for photometry, photography, spectroscopic work, and electrical measurements. A workshop is provided with lathe and tools. A steam engine and two dynamos are connected with the laboratories.

Astronomy

The Whitin Observatory is supplied with a twelve-inch refracting telescope with micrometer, spectroscope, and photometer attachments; a six-inch telescope, also with driving clock and micrometer; a three-inch broken-transit, a chronograph, clocks, a concave grating spectroscope, and a collection of minor instruments and photographs.

Meteorological instruments, including thermometer shelter, thermograph, barograph, anemometer, and anemoscope, are installed at the observatory.

Psychology

The work of the laboratory is carried on in seven rooms (among which are dark-room and lecture-room) with electrical connections. The equipment includes Sanford's chronograph and vernier chronoscope; a chronoscope with electrical connections upon the principle of the vernier; an electric motor; a pneumograph, plethysmograph, tambours, and a kymograph; an automatograph and finger-dynamometer; Lough's electrically actuated pendulum and Mälzel's mercury contact metronome, to either of which may be attached the time-marker, an electric pen, used with the kymograph; Zwaardemaker's clinical and fluid-mantle olfactometers, with a large collection of smell material; a pair of Titchener's electric motor color-mixers, a campimeter, a Wheatstone stereoscope; the Hering simultaneous contrast apparatus; the apparatus of Münsterberg and of Titchener for the localization of sound; Galton's piston whistle; Quincke's tubes, tuning-forks and sonometers; the Jastrow memory apparatus; a pressure-balance, æsthesi-

ometers, graduated weights, etc.; and apparatus for special investigations. Students have the use of models and plates of the brain, and of dissecting instruments.

Zoology

There are three laboratories for the study of Zoology and Animal Physiology. They are equipped with microscopes, microtomes, incubator, and the more special pieces of apparatus for physiological work.

The Zoology Museum contains a typical collection of both vertebrates and invertebrates, and a considerable number of models by Ziegler, Blaschka, Auzoux, and Deyrolle. There are also excellent collections of the local birds and of insects.

Needs of the College

Wellesley College, established by private benevolence, entered upon its work with a costly material equipment, but with no endowment in money.

The endowment of the library by Mr. E. N. Horsford, the later contributions of Mr. Rockefeller and others to general and special endowment, have greatly relieved the burden resting upon the College. Yet to-day the receipts from board and tuition fees form the main resource with which to meet running expenses and annual repairs, and to make those additions to apparatus and buildings which are demanded by the constant advance and expansion of college instruction throughout the country.

It must be evident that the past outlay has been amply justified by results. Notwithstanding the peculiar dependence of the College upon the number of students admitted and retained, the first twenty-nine years of its existence have been attended by a constant rise in the academic standard. From Wellesley have been graduated nearly twenty-five hundred young women, who have carried the fruits of their college training into the schools and households of their country, and into benevolent work at home and abroad. It is believed that the College can with full confidence appeal to the public at large for further aid.

Among the urgent needs of the College are the following :—

1. Unrestricted funds for defraying general expenses.
2. A library building.
3. A science building.
4. A gymnasium building.
5. The endowment of the presidency and professorships.

Forms of Bequest

I give and bequeath to Wellesley College, a corporation established by law, in the town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of_____ dollars, to be safely invested by it, and called the_____Endowment Fund. The interest shall be applied to the payment of the salaries of teachers in Wellesley College, as the Trustees shall deem expedient.

I give and bequeath to Wellesley College, a corporation established by law, in the town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of_____ dollars, to be appropriated by the Trustees for the benefit of the College in such manner as they shall think will be most useful.

I give and bequeath to Wellesley College, a corporation established by law, in the town of Wellesley, county of Norfolk, and Commonwealth of Massachusetts, the sum of_____ dollars, to be safely invested by it, and called the_____Scholarship Fund. The interest of this fund shall be applied to aid deserving students in Wellesley College.

Degrees Conferred in 1904

Master of Arts

Mary Campbell Bliss (B.A., Wellesley, '99), *Botany.*
Thesis: An Embryological Study of Viola.

Helen May Cady (B.A., Wellesley, '99), *English Literature.*
Thesis: The Celtic Revival.

Mary Grace Caldwell (B.A., Wellesley, '95), *Latin.*
Thesis: Sense Epithets in the Æneid of Vergil and the Metamorphoses of Ovid.

Lulu Geneva Eldridge (Ph.B., Northwestern University, 1900), *Latin and Comparative Philology.*
Thesis: The Treatment of Nature in Lucretius, with a Brief Comparative Study of Catullus and the Augustan Poets.

Elizabeth Morrill Kittredge (B.A., Wellesley, '02), *Practical Astronomy.*
Thesis: Star Names. A Study in the Identity of Flamsteed's Stars.

Frances Hall Rousmaniere (B.A., Wellesley, 1900), *Philosophy.*
Thesis: The Concept of Sameness. A Study Based on Certain Texts of Fichte and of Hegel.

Mabel Grace Taylor (B.A., Mount Union College, '01), *English Language and Literature.*
Thesis: A Critical Edition of Jonson's "Sad Shepherd."

Mildred May Tibbals (B.A., Pacific University, '01), *English Language and Literature.*
Thesis: A Study of Cowper as the Precursor of Wordsworth.

Hortense Eugenie Wales (B.A., Wellesley, '97), *English Language and Literature.*
Thesis: Contemporary Criticism of Elizabethan Poetry.

Eliza Gregory Wilkins (B.A., Wellesley, 1900), *Greek, Latin, and Comparative Philology.*
Thesis: The Function of the Chorus in Euripides.

Mabel Blanche Woodbury (B.A., Wellesley, '92), *Psychology and Pedagogy.*
Thesis: An Experimental Study of the Reproductive Memory for Series of Colors.

Bachelor of Arts

Margaret Louise Abbott.
Ruth Beatrice Abbott.
Susan Louise Adams.
Bessie Warner Allen.
Sarah Whitin Anderson.
Elsie Appel.
Elta Mae Armstrong.
Maud Holdridge Arnold.
Sibyl Baker.
Eleanor Margaret Bennett.

Bessie Birtwell.
Edith Louise Blanchard.
Emily Orinda Boynton.
Jane Curtin Breese.
Martha Nutting Brooks.
Emily Sophie Brown.
Jane Lord Burbank.
Carrie Mason Burditt.
Ada May Burt.
Cora Leila Butler.
Helen Roberta Button.
Rowena Campbell.
Helen Estelle Chamberlin.
Alice Darling Chapman.
Eleanor Clark.
Grace Bedell Clark.
Mary Elizabeth Colman.
Florence Vedder Cook.
Grace Goodnow Crocker.
Ruth Chadwick Crosby.
Grace Lillian Danforth.
Alice Josephine Danielson.
Anna Elizabeth Darby.
Mary Emily Davidson.
Florence Denny.
Maude Dewar.
Ethel Beatrice Doak.
Daisy Grimwood Dutcher.
Caroline Blakeman Early.
Alice Bessie Eastman.
Mary Pearl Eaton.
Pauline Egelston.
Emma Rebecca Ellis.
Emily Bertha Etzensperger.
Marion Elizabeth Fenton.
Fanny Field.
Claudia Grugan Fink.
Myra Bessie Fishback.
Addie Eliza Flanders.
Mary Pelton Follett.
Louise Benson Foster.
Edith Fox.
Helen Gertrude Fox.
Alberta Mildred Franklin.
Martha Freeman.
Florence Helen Fremmer.
Inez Josephine Gardner.
Laura Emilie Gerber.
Norma Lucile Gilchrist.
Gladys Gladding.
Grace Gladding.
Jessie Bence Goff.
Clara Louise Green.
Helen Jeanette Halley.
Eleanor Mabelle Hammond.
Ruth Spencer Hart.
Clarissa Smith Hastings.
Flora Hermine Heinz.
Florence Hamilton Hewitt.
Nina Madeleine Hill.
Grace May Houghton.
Louise Hunter.
Ruth Lawrence Huntington.
Laura Mandana Hussey.
Florence Windsor Hutsinpillar.
Maude Louise Stanton Jessup.
Mareon Christine Johansen.
Beulah Proctor Johnson.
Jeannette Sage Kelly.
Marian Kinney.
Ida Webb Kitchen.
Stella Kohn.
Estella Cinq Mars Kramer.
Janet McClelland Lambie.
Alice Rebecca Lawson.
Marjorie Lee.
Jane Ray Lennox.
Ruth Pauline Lincoln.
Catherine Lowrie Linn.
Elizabeth Little Lord.
Annie Vreeland Luff.
Gertrude Lukens.
Ruth Lyon.
Annie Bruce McClure.
Eleanor Worthington Macdonald.
Lilian Alice McDonald.
Jane Elizabeth McKearin.
Margaret MacLeod.
Ethel McTaggart.
Katharine Haworth Macy.
Sarah Felton Marsh.
Jessie Adams Marvin.
Mary Olive Miller.
Eleanor Perrine Monroe.
Ethel Iona Moody.
Clara Stanton More.
Julie Mathilde Morrow.
Abbie How Newton.
Elsie Delight Newton.
Willa Carey Noble.
Tusanelda Nusbickel.
Mary Lillian Nye.
Adele Ogden.
Anne Decker Orr.
Emily Osborn.
Marion Louise Parlin.

Helen Elizabeth Peck.
Alice Beaver Phillips.
Mabel Lizzie Pierce.
Myra Finette Pinney.
Bertha Diantha Platt.
Marion Elizabeth Potter.
Lucy Bond Proctor.
Marion Lois Proctor.
Sarah Helen Prouty.
Nora Elizabeth Pryse.
Helen Louise Quale.
Mary Gine Riley.
Elsie Lenore Ring.
Jeannette Risdon.
Helen Rollins.
Ella Louise Sawyer.
Sue Franz Schoolfield.
Martha Schenck.
Anna Margaret Scott.
Katharine Elizabeth Sheridan.
Grace Powers Sherwood.
Grace Warren Simpson.
Natalie Atkinson Smith.
Florence Baker Snow.
Caroline Campbell Soutter.
Edith Howe Stearns.
Madeleine Steele.
Margaret Osborn Stevens.
Alice Webb Stockwell.
Faith Harriet Talcott.
Mary Dotha Tate.
Edna Livingston Taylor.
Elizabeth Caldwell Taylor.
Bertha Jean Thayer.
Helen Mary Thomas.
Marion Louise Townsend.
Mary Helen Troy.
Ella Tuttle.
Julia Gardiner Tyler.
Ethel Sophia Vaughan.
Helen Louise Wales.
Gertrude May Ware.
Susan Eleanor Warner.
Bertha Silliman Watson.
Margaret Dee Webber.
Frances Manuella Webster.
Elizabeth Ball Welty.
Caroline Louisa Weatherbee.
Harriet Bancroft Whitaker.
Mary Louise Wholean.
Zora Putnam Wilkins.
Grace Woodbury.
Euphemia Richardson Worthington.

Honor Scholarships

Honor Scholarships (without stipend) have been established by the College for the purpose of giving recognition to a high degree of excellence in academic work. These honors fall into two classes: students in the first, or higher class, are termed Durant Scholars; students in the second class are termed Wellesley College Scholars.

These honors are awarded to seniors on the basis of three and one-half years' work, to juniors on the basis of two and one-half years' work. The standard in each case is absolute, not competitive.

Durant Scholars

APPOINTED IN 1904

Martha Nutting Brooks, '04.
Jane Lord Burbank, '04.
Helen Dodd Cook, '05.
Louise Benson Foster, '04.
Alberta Mildred Franklin, '04.
Ellen Russell Manchester, '05.
Clara Stanton More, '04.
Abbie How Newton, '04.
Marion Elizabeth Potter, '04.
Cora Belle Squier, '05.
Isabelle Stone, '05.
Louise Emma Sylvester, '05.
Edna Livingston Taylor, '04.
Marguerite Florence Venn, '05.
Ethel Phoebe Waxham, '05.
Mary Louise Wholean, '04.
Euphemia Richardson Worthington, '04.

Wellesley College Scholars

APPOINTED IN 1904

Susan Louise Adams, '04.
Bessie Warner Allen, '04.
Elsie Appel, '04.
Florence Emery Beck, '05.
Eleanor Margaret Bennett, '04.
Rachel Bancroft Brooks, '05.
Clara Harding Bruce, '05.
Cora Leila Butler, '04.
Lucy Sackett Curtiss, '05.
Ethel Beatrice Doak, '04.
Claudia Grugan Fink, '04.
Helen Gertrude Fox, '04.
Gladys Gladding, '04.
Laura Alandis Hibbard, '05.
Edna Darling Holmes, '05.
Cecile Florence Houghton, '05.
Grace Caroline Humphrey, '05.
Helen Marie Johnston, '05.
Antoinette Knox, '05.
Estelle Cinq Mars Kramer, '04.
Annie Vreeland Luff, '04.
Lena Jane McCurdy, '05.
Florence Mainhardt, '05.
Eleanor Perrine Monroe, '04.
Carolyn Peyton Nelson, '05.
Edna May Orvis, '05.
Alice Beaver Phillips, '04.
Mary Gine Riley, '04.
Abbie Otis Stoddard, '05.
Marion Louise Townsend, '04.
Gertrude Edith Williams, '05.
Flora Janet Wolfson, '05.
Sarah Jones Woodward, '05.

Summary of Students

Resident candidates for the M.A. degree		15
Candidates for the B.A. degree :—		
Seniors	200	
Juniors	222	
Sophomores	260	
Freshmen	344	
		1026
Non-candidates for degrees		9
Total registration, November, 1904		1050

United States :—			
Massachusetts	300	Kansas	6
New York	137	Nebraska	6
Pennsylvania	102	Washington	5
Illinois	68	North Carolina	4
New Jersey	58	Alabama	2
Ohio	54	District of Columbia	2
Connecticut	46	Indian Territory	2
New Hampshire	34	Maryland	2
Maine	31	Tennessee	2
Missouri	27	Virginia	2
Iowa	25	West Virginia	2
Rhode Island	21	Delaware	1
Michigan	18	Florida	1
California	13	Idaho	1
Minnesota	13	Louisiana	1
Wisconsin	9	Mississippi	1
Indiana	8	New Mexico	1
Kentucky	8	South Dakota	1
Utah	8	Canada	3
Vermont	8	Hawaiian Islands	2
Texas	7	Japan	1
Colorado	6	Mexico	1

Officers of the Alumnæ Association

Mrs. Albert D. Mead, *President*, 283 Wayland Ave., Providence, R. I.
Miss Alice W. Hunt, *Vice President*, 152 Irving Ave., Providence, R. I.
Miss Helen M. Capron, *Recording Secretary*, Stillwater, R. I.
Miss Lilian B. Miner, *Cor. Sec.*, 204 Lexington Ave., Providence, R. I.
Miss Mary K. Conyngton, *Treasurer*, 85 Congdon St., Providence, R. I.

Local Associations

Boston Wellesley College Club,
Miss Leila W. Day, *Secretary*, 211 Newbury St., Boston, Mass.

Buffalo Wellesley Club,
Miss Mary L. Danforth, *Secretary*, 440 Ellicott Sq., Buffalo, N. Y.

Chicago Wellesley Club,
Miss Ethel D. Holmes, *Secretary*, 4569 Oakenwald Ave., Chicago, Ill.

Cleveland Wellesley Club,
Mrs. Homer H. Johnson, *Sec.*, Overlook Road, Euclid Heights, Cleveland, Ohio.

Colorado Wellesley Club,
Miss Julia D. Ferris, *Secretary*, 920 E. 18th Ave., Denver, Col.

Connecticut Valley Wellesley Club,
Miss Martha T. Waterman, *Secretary*, West Hartford, Conn.

Eastern Connecticut Wellesley Club,
Address Miss Harriet H. Brown, Putnam, Conn.

Fitchburg Wellesley College Club,
Miss Ruth C. Crosby, *Secretary*, 8 Pearl St., Fitchburg, Mass.

Minnesota Wellesley Club,
Miss Grace E. Stilwell, *Secretary*, 1900 Park Ave., Minneapolis, Minn.

New York Wellesley Club,
Mrs. Charles Hubert Farnsworth, *Sec.*, 1230 Amsterdam Ave., New York City.

Northfield Wellesley Club,
Miss Belle W. Smith, *Secretary*, Holton Hall, East Northfield, Mass.

Pittsburg Wellesley Club,
Miss Anna M. Steiner, *Secretary*, 526 Church Ave., Allegheny, Pa.

Portland Wellesley Club (not fully organized),
Address Mrs. Arthur P. Champlin, 345 Spring St., Portland, Me.

Rochester Wellesley Club,
Miss Nellie G. Prescott, *Secretary*, 99 S. Fitzhugh St., Rochester, N. Y.

Southern California Wellesley Club,
Miss Edith T. Claypole, *Secretary*, Grand Ave., Pasadena, Cal.

St. Louis Wellesley Association,
Miss Geneva Crumb, *Secretary*, 5463 Maple Ave., St. Louis, Mo.

Washington Wellesley Association,
Miss Frida M. Raynal, *Secretary*, 1626 Riggs Pl., Washington, D. C.

Wellesley Club of Philadelphia,
Miss Mary H. Haines, *Secretary*, 5433 Wayne Ave., Germantown, Pa.

Wellesley Club of San Francisco,
Mrs. Charles W. Willard, *Secretary*, 1263 Clay St., San Francisco, Cal.

Wellesley Club of Taunton,
Miss Florence H. Stone, *Secretary*, 20 Cedar St., Taunton, Mass.

Worcester Wellesley Club,
Miss Eleanor R. Conlon, *Secretary*, 129 Vernon St., Worcester, Mass.

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